Panasonic

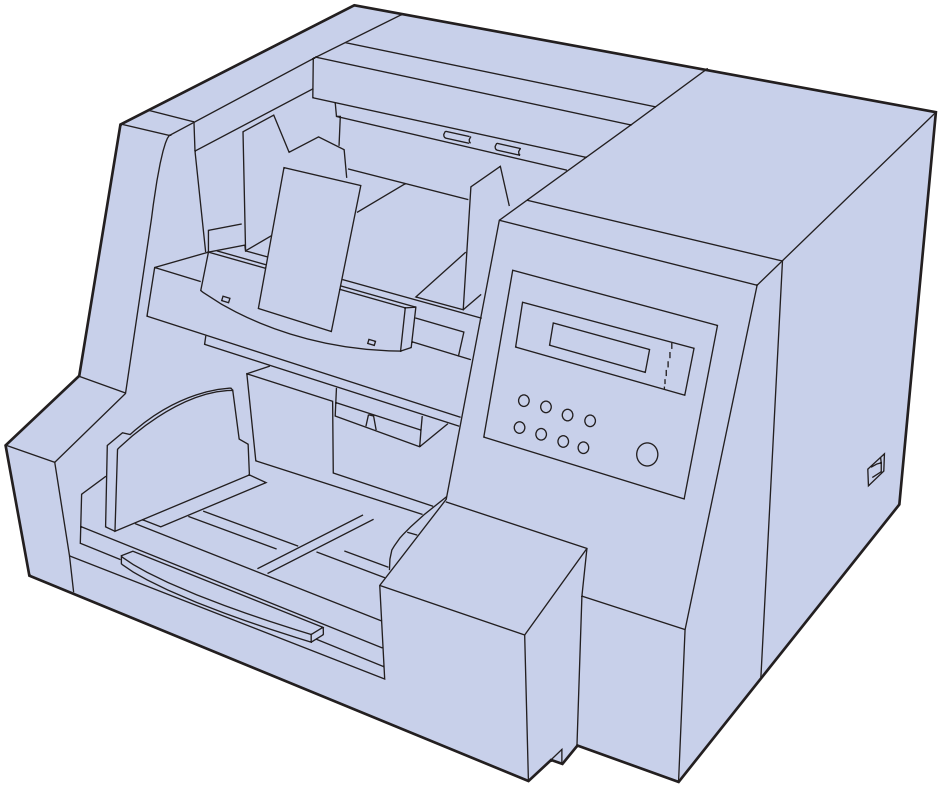
Operating Instructions

High Speed Color Scanner

Model No. **KV-S3105C**

High Speed Scanner

Model No. **KV-S3085**



These instructions contain information on operating the scanner. Before reading these instructions, please read the installation manual enclosed with this unit.

Please carefully read these instructions, the enclosed installation manual and maintenance manual. Keep all documentation in a safe place for future reference.
Keep the CD-ROM in the protective case. Do not expose the CD-ROM to direct sunlight or extreme heat and do not scratch or smudge the surface of the CD-ROM.

Thank you for purchasing a Panasonic “High Speed Color Scanner” or “High Speed Scanner.”

- Panasonic supports your imaging needs with a reliable and easy to use document scanner.
- Panasonic has developed Panasonic Image Enhancement Technology to improve the quality of your scanned images even beyond the quality of your original document.

■ System requirements

When using the scanner, the required host computer conditions are as follows.

	SCSI Connection	USB Connection
CPU	Minimum Pentium® III, 1 GHz Recommended Pentium 4, 2 GHz or higher	
Memory	Minimum 256 MB Recommended 512 MB or higher	
OS	Windows® 98*1 / Windows NT ®*3 4.0 / Windows 2000*4 / Windows Me*2 / Windows XP*5	Windows 98 SE / Windows 2000 SP4 / Windows Me / Windows XP SP1
Display	1024×768 dots or more, 65536 colors or more	
Interface	SCSI III Recommended SCSI board Adaptec SCSI 29160 / 39160	USB 2.0

*1 Microsoft® Windows 98 operating system (hereafter Windows 98)
*2 Microsoft Windows Millennium Edition operating system (hereafter Windows Me)
*3 Microsoft Windows NT operating system (hereafter Windows NT)
*4 Microsoft Windows 2000 operating system (hereafter Windows 2000)
*5 Microsoft Windows XP operating system (hereafter Windows XP)

※ 1 GB or more free space is required in the HDD.
※ Color images larger than A3 size cannot be scanned in 600 dpi on Windows 98 or Windows Me. A large size color image may not be scanned in high resolution depending on a computer system or application.
※ The scanning speed differs depending on the host computer operating environment or application.
※ Windows NT 4.0 does not support USB interface.
※ For Windows NT 4.0, you must install the ASPI layer software that the SCSI board vender provides.
※ Use USB 2.0 interface because scanning speed of USB 1.1 interface is slow.
※ If you connect the scanner to a USB hub, it is not guaranteed to work.
※ When using the scanner with other SCSI devices connected by daisy chain connection, it is not guaranteed to work.

Important

- Do not duplicate currency.
- Do not duplicate copyrighted material or the work of others except for the purpose of private use.
- Do not duplicate any kind of certificates, licenses, passports, official or private documents, and the like.

As an ENERGY STAR® Partner, Panasonic has determined that this product meets the ENERGY STAR guidelines for energy efficiency.
(ENERGY STAR and the ENERGY STAR certification mark are registered US marks.)

- Microsoft, Windows and Windows NT are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
- ISIS is a registered trademark of Pixel Translations, a division of Captiva Software Corporation.
- Pentium is a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries.
- Adaptec is a registered trademark of Adaptec, Inc.
- Each company’s name or company product name is each company’s trademark or registered trademark.

The information given in these Operating Instructions is subject to change without notice.

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Notice

English

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR ANY TYPE OF MOISTURE.

THE SOCKET-OUTLET MUST BE NEAR THIS EQUIPMENT AND MUST BE EASILY ACCESSIBLE.

The product should be used only with a power cord that is supplied by the manufacturer.

Power Source
WARNING
- (220-240 V equipment)
  A certified power supply cord has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply cord not lighter than ordinary polyvinyl chloride flexible cord according to IEC 60227 (designation H05VV-F 3G 1.0 mm^2).

Roller cleaning paper precautions

Before using the roller cleaning paper, please read these instructions completely. Keep these instructions for future reference.

WARNING
- Do not drink or inhale the roller cleaning paper fluid including isopropyl alcohol.
- The roller cleaning paper may be harmful to sensitive skin. Please use protective gloves.
- Do not use the roller cleaning paper near a heater or open flame.
- Do not store the roller cleaning paper in direct sunlight or in a place with temperature over 40 °C (104 °F).
- Only use the roller cleaning paper to clean the rollers and scanning area.
- If you need more information about the roller cleaning paper, please refer to the Material Safety Data Sheet (MSDS).
- Please ask your Panasonic sales company about obtaining the Material Safety Data Sheet.

KEEP AWAY FROM FIRE.

Federal Communications Commission Requirements

(For United States only)

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Warning: To assure continued FCC compliance, the user must use only shielded interface cable and the provided power supply cord. Also, any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

(For United Kingdom only)
For your safety please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5 amp. fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amps. and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse. If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic Dealer.

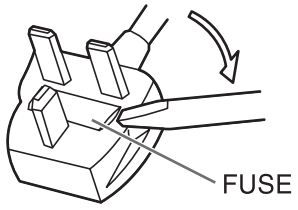
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safely.
There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp. socket.
If a new plug is to be fitted please observe the wiring code as shown below. If in any doubt please consult a qualified electrician.
WARNING: This appliance must be earthed.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code.

Green-and-Yellow	: Earth
Blue	: Neutral
Brown	: Live

As the colours of the wire in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows.

The wire which is coloured Green-and-Yellow must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured Green-and-Yellow.
The wire which is coloured Blue must be connected to the terminal in the plug which is marked with the letter N or coloured Black.
The wire which is coloured Brown must be connected to the terminal in the plug which is marked with the letter L or coloured Red.

How to replace the fuse:
Open the fuse compartment with a screwdriver and replace the fuse.



在台灣的使用者

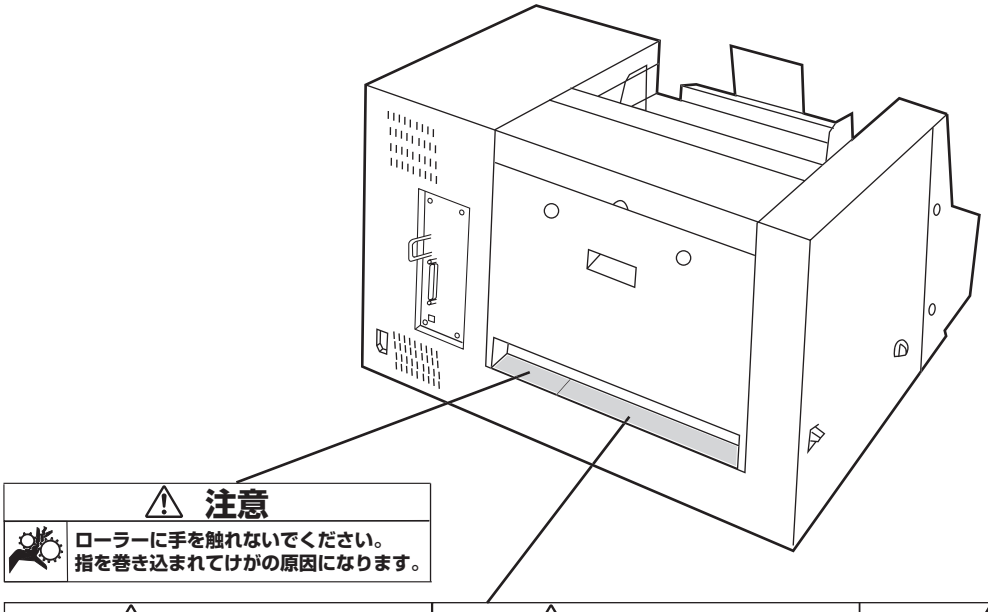
警告
爲防止發生火災和電擊，切勿將本機置於會遭到雨淋或其他任何類型的潮濕環境中。

電源插座務必要靠近本設備而且必須便於插拔。

警告使用者
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

警告
・ 切勿將含有異丙醇的輥清潔紙液誤飲或吸入。
・ 輥清潔紙可能對敏感的皮膚有害，因此請戴上防護手套使用。
・ 切勿靠近加熱器具或明火使用輥清潔紙。
・ 切勿將輥清潔紙在陽光直射或溫度超過40˚C之處保管。
・ 只能使用輥清潔紙來清潔輥和掃描區域。
・ 有關輥清潔紙的具體細節請參閱材料安全數據表(MSDS)。
・ 關於獲取材料安全數據表的方法請向Panasonic銷售公司洽詢。
遠離火源。

Caution Labels



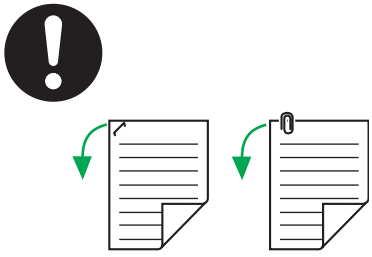
⚠ 注意
ローラーに手を触れないでください。 指を巻き込まれてけがの原因になります。

⚠ CAUTION	⚠ VORSICHT	⚠ ATTENTION
DO NOT TOUCH THE ROLLER. THIS MAY CAUSE PERSONAL INJURY.	NICHIT DIE ROLLE BERÜHREN. VERLETZUNGSGEFAHR.	NE PAS TOUCHER LE ROULEAU. RISQUE DE BLESSURES.

Precautions

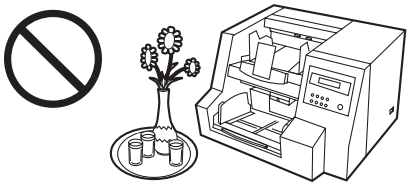
The following precautions are recommended to extend the life of the unit:

Prior to scanning, remove all staples and paper clips from pages.

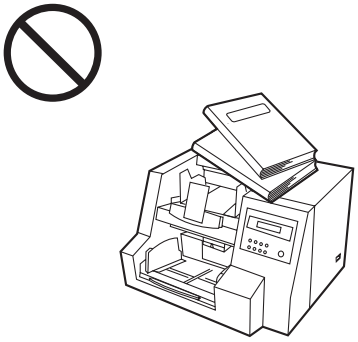


Do not place any liquids near the unit.

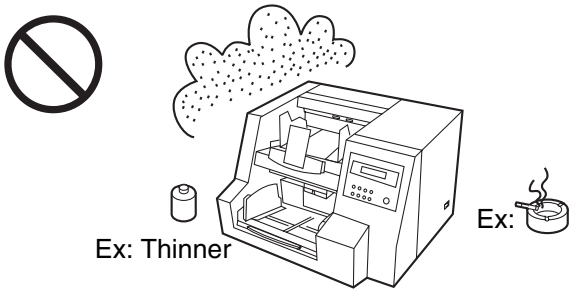
—Accidental spillage of liquid into the unit may cause severe damage. If this occurs, turn the unit off, unplug the power cord and call for service.



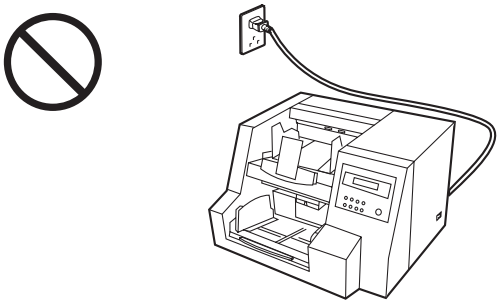
Do not place books, paper, or other items on the unit.



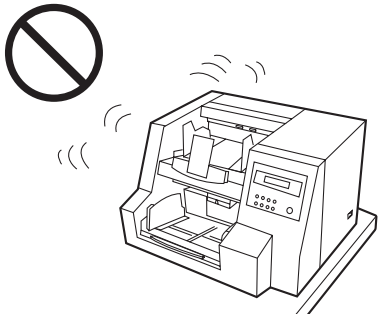
Do not place the unit in an area where there is a lot of smoke, dust, chemical fumes or vibration.



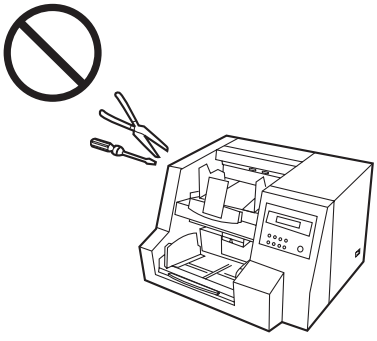
Do not leave the power cord plugged into the AC outlet if the unit will not be used for an extended period.



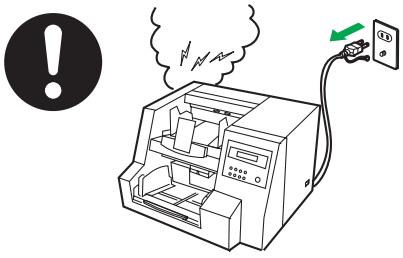
Do not place the unit on an uneven or unstable surface.



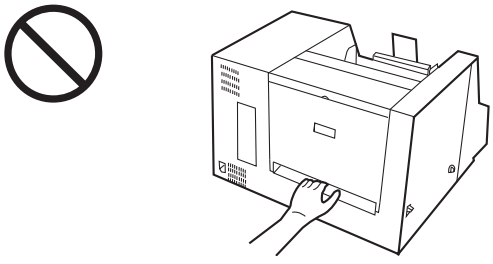
Do not disassemble the unit.
This will void your warranty.



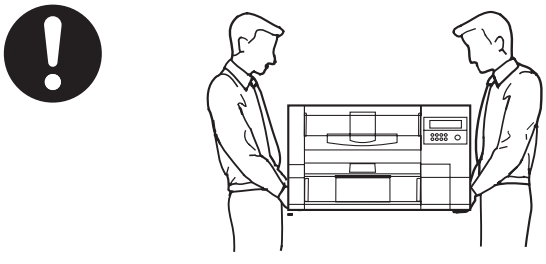
Stop operation immediately if the unit emits smoke, excessive heat, abnormal smell or unusual noise. These conditions can cause fire or electric shock. Immediately unplug the power cord and call for service.



Do not insert your fingers into the back opening in the scanner.



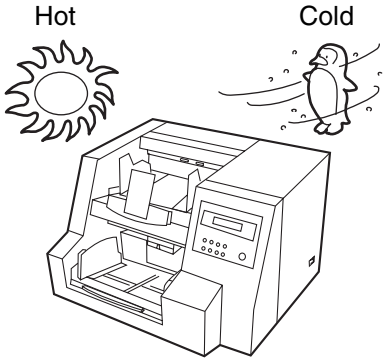
It is recommended that if the scanner has to be moved, at least two people carry it.



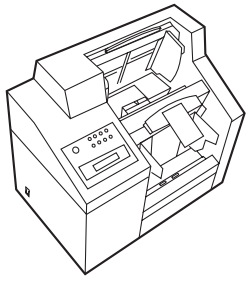
- Special care should be taken to protect the unit if it is used in a less than optimum environment, such as a dusty or sandy area.

Operating Environment

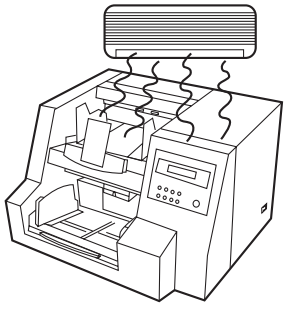
Do not place the unit in direct sunlight or in a cold draft.



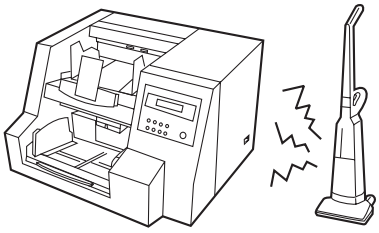
Do not operate or place the unit in a vertical position.



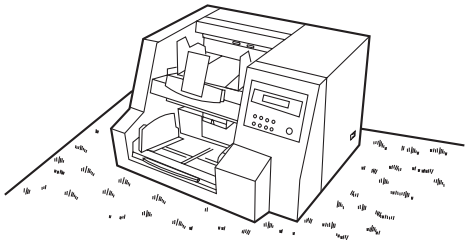
Do not place the unit near a heating appliance or an air conditioning vent. Do not place the unit in a room with extremely high or low humidity.



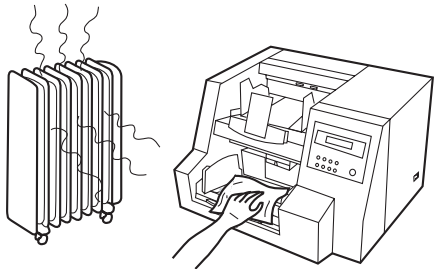
Do not place the unit near other appliances which generate large electrical noise.



Do not place the unit on a carpet. (Static electricity can cause the unit to malfunction.)



Do not drink or inhale the included roller cleaning paper fluid.
The roller cleaning paper may be harmful to sensitive skin. Please use protective gloves.
Do not use the roller cleaning paper near a heater or open flame. This may cause a fire.

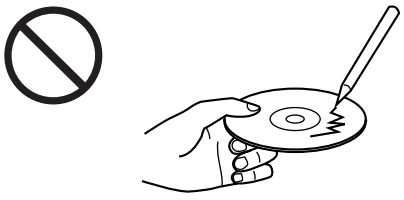
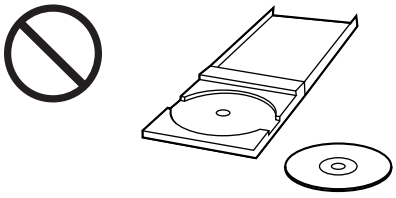
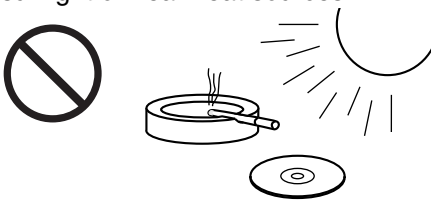
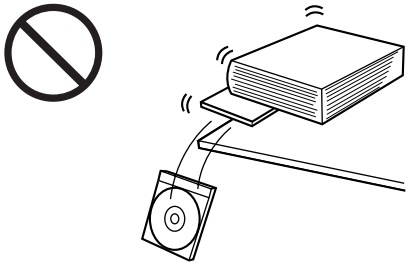
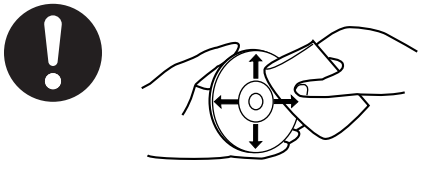


●Power Source

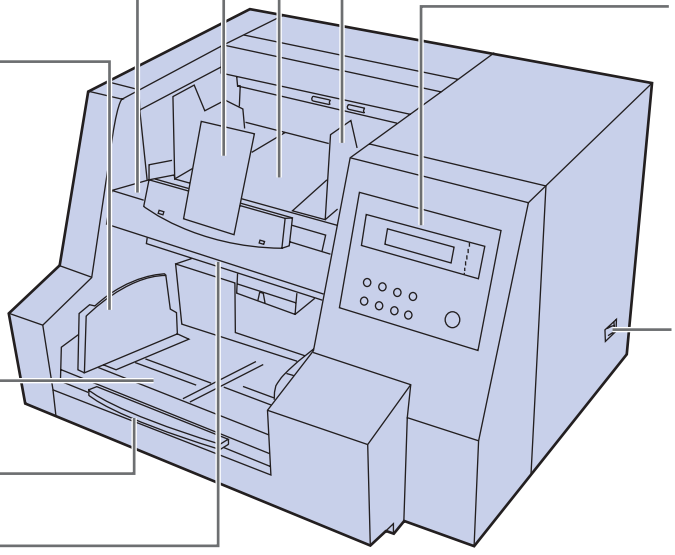
- Use a voltage level that does not vary more than ±10% from the voltage level marked on the nameplate (located on the back side of the scanner).
- Do not use an extension cord.
- This scanner should be connected to a grounded outlet.
- Do not use a line conditioner, transient suppressor or surge protector.

■ CD-ROM

To prevent the CD-ROMs from accidental damages:

Do not touch or write on the surface of the disc. 	Do not leave the disc out of its protective case. 	Do not leave the disc in direct sunlight or near heat sources. 
Do not place heavy objects on the disc case or drop the case. 	To clean the disc, hold the disc by its edges and wipe it from the center to the edges with a dry, soft cloth. 	

Component Identification



Exit tray stopper

Front door

Document guide

Hopper

Hopper extension tray

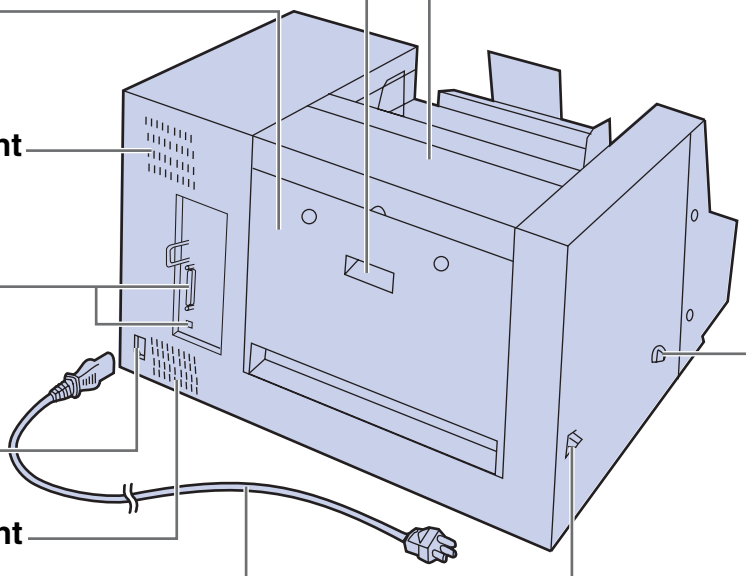
Front door release
Inside the front door.

Exit tray

Exit document guides

Display panel
When performing each setting, used to display the scanning conditions, etc.

Power switch
| : on position
◯ : off position



Back door release

Back door
Open this door if a paper jam occurs

Fan exhaust vent

Connectors
Used to connect the scanner unit to the host computer.

AC inlet

Fan exhaust vent

Power cord

Post-Imprinter (Top) door
Used for attaching the post-imprinter unit.

ADF selector
To prevent double feeding, adjust the lever to feed the scanning documents properly.
(See page 32.)

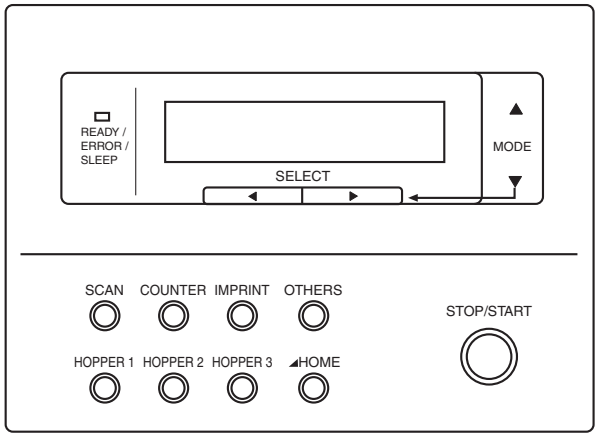
Paper path selector
Used to change the scanning documents path direction (front exit or straight pass).
(See page 32.)

Display Panel Instructions

The required settings must be selected prior to scanning.
Information and conditions are shown on the LCD (Liquid Crystal Display) and LED.

R	e	a	d	y													

■ Display panel and keys



SCAN :	Press to enter the scanning setting menu.
COUNTER :	Press to enter the counter setting menu.
IMPRINT :	Press to enter the imprinter setting menu.
OTHERS :	Press to enter the others setting menu.
HOPPER 1 HOPPER 2 HOPPER 3 :	Press to change the hopper position. Hopper capacity with 17 lbs. paper. HOPPER 1: 1000 sheets HOPPER 2: 200 sheets HOPPER 3: 1 sheet
HOME :	Press to exit from the setting section and return to the ready status. Also, this function can change the display language.
STOP / START :	Used to start or stop scanning a document.

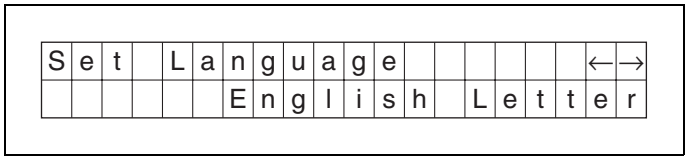
LCD :	Up to 40 characters can be displayed during scanning or setting.
▲ :	Press to advance to the next mode in the selected menu.
▼ :	Press to return to the previous mode in the selected menu.
► :	Press to advance to the next value in the selected mode.
◄ :	Press to return to the previous value in the selected mode.
LED READY / ERROR / SLEEP :	Indicates the status of the scanner. Green: Ready to scan or scanning Green (flashing): Sleep mode Orange: Initializing or warning Orange (flashing): Sleeping with warning Red: An error has occurred.

■ Setting the language

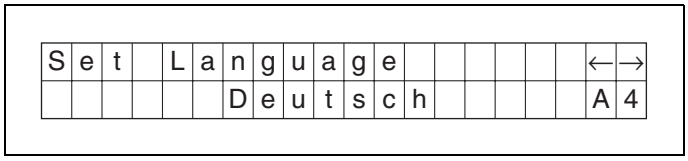
- Select English, German or Japanese as the language which is to appear on the LCD display.
- The language setting mode is appeared automatically when the unit's power is turned on for the first time after the unit was purchased. English is the default language.

1 Turn the power on while pressing the HOME key.

- **When "High Speed Scanner" or other words appear on the LCD, release the HOME key.**

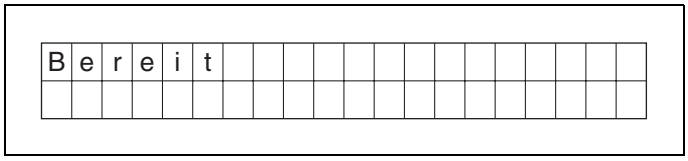


2 Use the ◄ key or the ► key to select "English Letter", "English A4", "Deutsch A4" or "ニホンゴA4".



3 Press the HOME key.

- **The display will change to the selected language, then the scanner will be ready.**
- **This setting will remain until it is changed to another setting.**

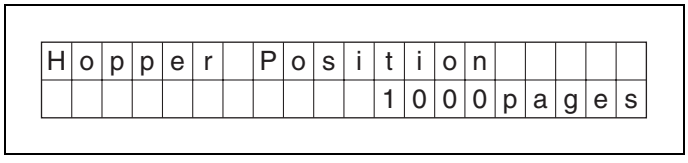


■ Setting the hopper position

Select one of the 3 hopper positions (1000, 200 or 1 sheet with 17 lbs. paper) according to the number of sheets to be scanned. The hopper position is changeable only when "Ready" is displayed on the LCD.

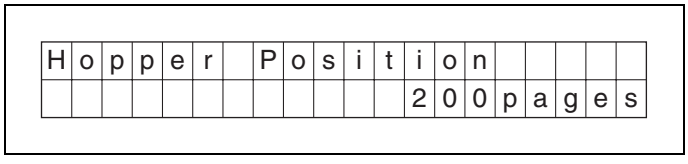
1 Press the HOPPER 1 key to set the hopper to 1000 sheets position.

- **While setting the hopper position, the LCD displays as shown on the right. After setting is complete, "Ready" appears on the LCD.**



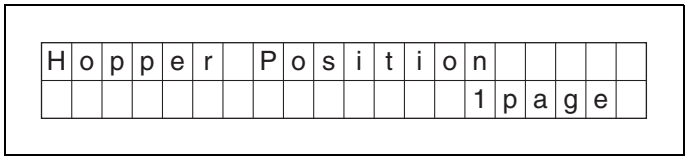
2 Press the HOPPER 2 key to set the hopper to 200 sheets position.

- **While setting the hopper position, the LCD displays as shown on the right. After setting is complete, "Ready" appears on the LCD.**



3 Press the HOPPER 3 key to set the hopper to 1 sheet position.

- **While setting the hopper position, the LCD displays as shown on the right. After setting is complete, "Ready" appears on the LCD.**



■ Setting the scanner

The following parameters can be customized using the scanner's various setting modes. If the application software provides these features, it will be supported by the scanner.

Scan menu

No.	Item	LCD display	Contents	Page
01	Front side dropout color	F. Drop Out	Color selection for dropout when scanning the front side of a document.	18
02	Front side brightness	F. Brightness	Selection for density when scanning the front side of a document.	18
03	Front side image emphasis	F. Image Emphasis	Selection for emphasis when scanning the front side of a document.	18
04	Front side contrast	F. Contrast	Selection for contrast when scanning the front side of a document.	18
05	Front side halftone	F. Halftone	Selection for gradation when scanning the front side of a document.	18
06	Back side dropout color	B. Drop Out	Color selection for dropout when scanning the back side of a document.	19
07	Back side brightness	B. Brightness	Selection for density when scanning the back side of a document.	19
08	Back side image emphasis	B. Image Emphasis	Selection for emphasis when scanning the back side of a document.	19
09	Back side contrast	B. Contrast	Selection for contrast when scanning the back side of a document.	19
10	Back side halftone	B. Halftone	Selection for gradation when scanning the back side of a document.	19
11	Noise reduction	Noise Reduction	Selection for noise reduction when scanning a document.	19
12	Remove shadow	Remove Shadow	Selection to choose to remove the black lines appearing at the top or bottom of the image after scanning the document.	19
13	Fit to page	Fit To Page	Selects whether documents are scanned at actual size or reduced (Fit to Page) size.	19
14	Double feed detection	Double Feed	Selection to choose to detect double feeding function. When scanning very important documents, confirm if the number of scanned pages displayed on the LCD matches the number of actual pages.	20
15	Setting the "Double Feed" detector action	Double Feed Action	Selects the action of the Double Feed Detector when double feed occurs.	20

No.	Item	LCD display	Contents	Page
16	Setting the double feed detector sensitivity	Double Feed Sens.	Selects the sensitivity of the Double Feed Detector.	20
17	Feed speed	Feeding Speed	Chooses the feed speed when a document is being scanned.	21
18	Save scanning settings (Select memory)	Save Setting	Selects the memory location where the conditions are saved into.	21
	Save scanning settings (Execution)	Save Setting	Saves the scanning conditions into the memory. (2 memory settings)	21
19	Load scanning setting	Load Setting	Loads the memory where the scanning conditions have already been saved. If “Default” is selected, all of the scanning conditions will return to the default values.	21

Counter menu

No.	Item	LCD display	Contents	Page
01	Select the counter displayed on the LCD	Display Counter	Choose to display the batch scan counter which is reset before the next scan, set counter (user counter) or to display the total amount of scanned documents (system counter) on the LCD.	22
02	Setting the user counter	User Counter	Selection for default number before scanning.	22
	Setting the user counter extender	User Counter	Selection for an increase in the default number.	22
	Clear the user counter	User Counter	Clears the counter which was set by the user.	22
03	Displaying the system counter	System Counter	Displays the total amount of scanned documents up to now.	22

Imprinter menu

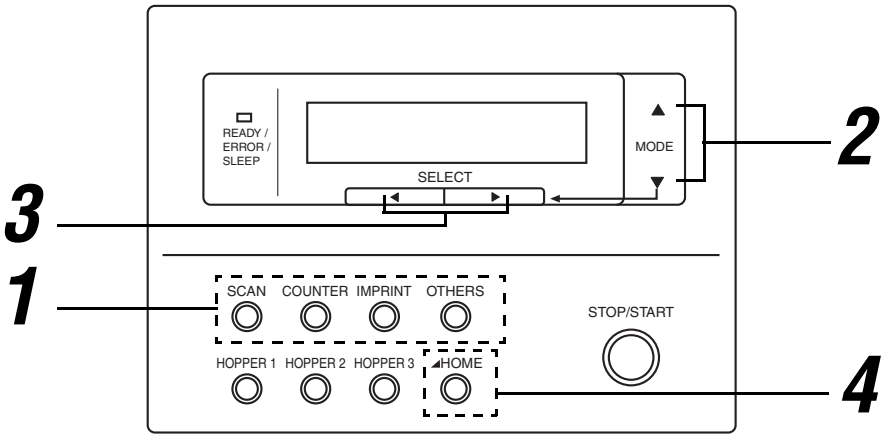
Depending on the setting of the “Counter setting menu”, the page number of the scanned document will be printed. The post-imprinter option (KV-SS028) is required. If a host computer is connected, there may be settings required on the host computer as well.

No.	Item	LCD display	Contents	Page
11	Setting the post-imprinter data	Post Imprint	Allows for the selection of the printing content using an imprinter. The imprinter will print on the reverse side of the document after scanned.	23
12	Setting the post-imprinter position	Post Position	Allows for the selection of the printing position using a post-imprinter.	23
13	Setting the post-imprinter font style	Post Font	Allows for the selection of the printing font style using a post-imprinter.	23
14	Setting the post-imprinter orientation	Post Orientation	Allows for the selection of the printing orientation using a post-imprinter.	24
15	Cleaning the post-imprinter	Post Cleaning	Cleans all nozzles of the post-imprinter by ejecting ink.	24

Others menu

No.	Item	LCD display	Contents	Page
01	Checking the version	Version	Displays the firmware version of the mechanical control, interface control or post-imprinter. If an optional imprinter is not installed, the imprinter version will not be displayed.	25
02	Setting the buzzer	Buzzer	Selects whether the buzzer is turned on or off. If selection is in the “ON” position: When pressing a key, one short beep will be heard. When there is an error, 5 short beeps will be heard. When scanning is completed correctly, one long beep will be heard.	25
03	Setting the SCSI ID	SCSI ID	Sets the SCSI ID number.	25
04	Setting the wide SCSI	Wide SCSI	• Sets “Enable” or “Disable”. • Set “Disable” when the connector of the PC is narrow.	25
05	Setting the transfer rate	Transfer Rate	• Changes the maximum value of the synchronous transfer rate of the SCSI interface. • Lower the synchronous transfer rate to 10 Mbytes/sec. if the computer has failed to recognize the scanner or the scanner fails to operate properly.	25
06	Checking the roller cleaning warning	Clean Roller Warning	The alarm tells you it is time to check the roller. If it is near 100%, clean the roller. See “Cleaning the Unit” on page 37.	25
	Clearing the roller cleaning warning	Clean Roller Warning Clear	Clear the “Clean Roller Warning ◯◯%” display.	25
07	Checking the roller modules replacement warning	Replace Roller Warning	The alarm tells you the roller needs to be changed. If it is near 100%, replace the paper feed roller module and retard roller module. See “Replacing Consumables” on page 43.	26
	Clearing the roller modules replacement warning	Replace Roller Warning Clear	Clear the “Replace Roll. Warning ◯◯%” display.	26
08	Setting the product ID	Product ID	Selects the product ID. The product ID setting depends on the host computer scanner application you are using. Allows scanner to emulate other Panasonic scanners.	26
09	Setting the sleep mode	Sleep Mode	Sets the time until sleep mode turns ON.	26

● Operation



1 Press one of the menu key until the desired menu is displayed.

- **The SCAN, COUNTER, IMPRINT and OTHERS keys are used as a menu key.**
- **When pressing the SCAN key, the display will appear as shown at the right.**

(Ex. SCAN)

0	1	.	F	.	D	r	o	p		O	u	t						
																H	o	s	t

2 Use the ▲ key or the ▼ key to select the desired item.

- **The display at the right is an example of a setting for the scanning setting mode.**

0	9	.	B	.	C	o	n	t	r	a	s	t							
L	–	–	–	–	+	–	–	–	–	H						H	o	s	t

3 Use the ► key or the ◄ key to select the desired content.

- **The display on the right is an example of a setting for the “B. Contrast”.**

0	9	.	B	.	C	o	n	t	r	a	s	t							
L	–	–	✻	–	+	–	–	–	–	H								L	2

4 Press the HOME key to return to the “Ready” display or another menu key to go to another menu.

When the HOME key is pressed:

R	e	a	d	y															

When the COUNTER key is pressed by another menu key:

0	1	.	D	i	s	p	l	a	y		C	o	u	n	t	e	r		
																S	c	a	n

※In steps 2 or 3, you can change to the desired menu by pressing the desired menu key.
※See pages 18 to 26 for details.
※For changing the display language, see page 12.

Actual settings

Scan setting menu (by pressing the SCAN key)

Number, mode and default display • Pressing the ▲ key will change to the next mode. • Pressing the ▼ key will change to the previous mode.	Contents • Pressing the ► key or the ◄ key will change to another value.
01 Front side dropout color 01.F.Drop Out Host	Color selection Host ↔ Green ↔ Red ↔ Blue
02 Front side brightness 02.F.Brightness D---+---L Host	D4 ↔ D3 ↔ D2 ↔ D1 ↔ Norm ↔ L1 ↔ L2 ↔ L3 ↔ L4 Host • When “Host” is displayed, pressing the ► key or the ◄ key will change the display to “Norm”. • “D” means dark. “L” means light.
03 Front side image emphasis 03.F.Image Emphasis ---+- Host	Smooth ↔ None ↔ Low ↔ Medium ↔ High Host • When “Host” is displayed, pressing the ► key or the ◄ key will change the display to “Medium”.
04 Front side contrast 04.F.Contrast L---+---H Host	L4 ↔ L3 ↔ L2 ↔ L1 ↔ Norm ↔ H1 ↔ H2 ↔ H3 ↔ H4 Host • When “Host” is displayed, pressing the ► key or the ◄ key will change the display to “Norm”. • “H” means high. “L” means low.
05 Front side halftone 05.F.Halftone Host	Host ↔ Binary ↔ Bayer dither 64 ↔ Bayer dither 16 Halftone dot 32 ↔ Halftone dot 64 ↔ Error diffusion Dynamic Threshold

• For changing the display language, see page 12.

06 Back side dropout color

0	6	.	B	.	D	r	o	p		O	u	t						
																H	o	s	t

Color selection

→ Host ↔ Green ↔ Red ↔ Blue ←

07 Back side brightness

0	7	.	B	.	B	r	i	g	h	t	n	e	s	s					
D	–	–	–	–	+	–	–	–	–	L							H	o	s	t

D4 ↔ D3 ↔ D2 ↔ D1 ↔ Norm ↔ L1 ↔ L2 ↔ L3 ↔ L4

Host

- When “Host” is displayed, pressing the ▶ key or the ◀ key will change the display to “Norm”.
- “D” means dark. “L” means light.

08 Back side image emphasis

0	8	.	B	.	I	m	a	g	e		E	m	p	h	a	s	i	s	
		–	–	–	+	–										H	o	s	t

Smooth ↔ None ↔ Low ↔ Medium ↔ High

Host

- When “Host” is displayed, pressing the ▶ key or the ◀ key will change the display to “Medium”.

09 Back side contrast

0	9	.	B	.	C	o	n	t	r	a	s	t							
L	–	–	–	–	+	–	–	–	H							H	o	s	t

L4 ↔ L3 ↔ L2 ↔ L1 ↔ Norm ↔ H1 ↔ H2 ↔ H3 ↔ H4

Host

- When “Host” is displayed, pressing the ▶ key or the ◀ key will change the display to “Norm”.
- “H” means high. “L” means low.

10 Back side halftone

1	0	.	B	.	H	a	l	f	t	o	n	e							
																H	o	s	t

→ Host ↔ Binary ↔ Bayer dither 64 ↔ Bayer dither 16 ←

↳ Halftone dot 32 ↔ Halftone dot 64 ↔ Error diffusion ←

→ Dynamic Threshold ←

11 Noise reduction

1	1	.	N	o	i	s	e		R	e	d	u	c	t	i	o	n		
	+	–	–	–	–	–	–									H	o	s	t

→ Host ↔ None ↔ B1×1 ↔ B2×2 ↔ B3×3 ←

↳ B4×4 ↔ B5×5 ↔ B6×6 ↔ W1×1 ↔ W2×2 ←

↳ W3×3 ↔ W4×4 ↔ W5×5 ↔ W6×6 ←

B1×1~B6×6: Scanner reduces a black dot.
W1×1~W6×6: Scanner reduces a white dot.

12 Remove shadow

1	2	.	R	e	m	o	v	e		S	h	a	d	o	w				
																H	o	s	t

→ Host ↔ Disable ↔ Enable ←

- This setting is valid only when the white roller kit is installed.

13 Fit to page

1	3	.	F	i	t		T	o		P	a	g	e						
																H	o	s	t

→ Host ↔ Disable ↔ Enable ←

Disable: Scanner scans at 100% actual page size. Some of the data on the edges of the page may be lost.
Enable: Scanner shrinks image to fit scanned page.

14 Double feed detection

1	4	.	D	o	u	b	l	e		F	e	e	d					
																H	o	s	t

→ Host ↔ Not detect ↔ Detect ↰

If set to “Detect”, the scanner will detect double feeding.

- When scanning very important documents, confirm if the number of scanned pages displayed on the LCD matches the number of actual pages.

15 Setting the “Double Feed” detector action

1	5	.	D	o	u	b	l	e		F	e	e	d					
					A	c	t	i	o	n						H	o	s	t

→ Host ↔ Stop ↔ Buzzer ↰

Host: The scanner will act in response to commands from the host computer.

Stop: The scanner will display double feeding error and stop when it detects double feeding.

Buzzer: When the scanner detects double feeding, it will sound a buzzer, the power indicator will light red and it will continue scanning.
After completing scanning, the scanner will display double feeding warning.
Even if this buzzer is set to “OFF” in “Setting the buzzer” (see page 25), it will still ring.

16 Setting the double feed detector sensitivity

1	6	.	D	o	u	b	l	e		F	e	e	d		S	e	n	s	.
																H	o	s	t

→ Host ↔ Low Sensitivity ↔ Normal Sensitivity ↰
→ High sensitivity ←

Low Sensitivity: The double feed detector’s sensitivity will be low. Set this when there is an error for no double feeding.

High Sensitivity: The double feed detector’s sensitivity will be high. Set this when there is no error for double feeding.

- Thick, creased, or edited documents with correction fluid as well as documents with holes near the center may give you false double feed warning.

17 Feed speed

17.Feeding Speed
Host

→Host ↔ Slow ↔ Normal ←

Slow: The scanner scans at the “Slow” speed.
“Slow” speed is effective in the range of 400 dpi or less resolution. However, depending on the scanning conditions, effective ranges may slightly differ.

18 Save scanning settings (Select memory)

18.Save Setting
Memory 1

Memory 1 ↔ Memory 2

18 Save scanning settings (Execution)

18.Save Setting
Exec=<>

When pressing the ► key and the ◄ key simultaneously, the scanning conditions set in 01 to 17 above will be saved in the memory selected in the “Save scanning settings (Select memory)”.
“Completed” will be displayed after saving.

19 Load scanning setting

19.Load Setting
Default

→Default ↔ Memory 1 ↔ Memory 2 ←

- If you use the ► key or the ◄ key to select Memory 1 or Memory 2, the saved scanning items will become valid by the “Save scanning settings (Execution)”. If other scanning items have been saved in another memory, during scanning you can change the scanning items easily. This setting will not be changed even if the power is turned off and on, and will remain valid.
- If “Default” is selected, all of the saved scanning settings will return to the default values. (See “01” to “17” of the left side display.)

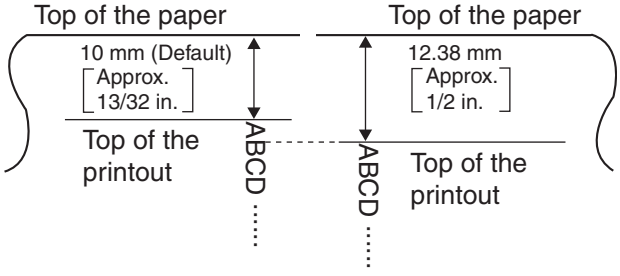
- Scanning settings 01-17 must be saved using setting “18 Save scanning settings (Execution)”.
  Even if they are not saved, they will be applied. If the power is turned off, the next time the unit is used they will not be applied.

Counter setting menu (by pressing the COUNTER key)

Number, mode and default display • Pressing the ▲ key will change to the next mode. • Pressing the ▼ key will change to the previous mode.	Contents • Pressing the ► key or the ◄ key will change to another value.
01 Select the counter displayed on the LCD 01.Display Counter Scan	↱Scan ↔ User ↔ System↰ Scan: After scanning one time, the scanner counter will be cleared. User: This counter is set to the default value. The user counter extender is also set by the user. They will be cleared when the power is turned OFF. System: Displays the total amount of scanned documents up to now.
02 Setting the user counter 02.User Counter 0	Pressing the ► key once will increase the user counter by one. Pressing the ◄ key once will decrease the user counter by one. Pressing the ► key or the ◄ key continuously will change the user counter value by increments of 10.
02 Setting the user counter extender 02.User Counter +1	↱+1↔ +2↔ +3↔ ····· +7↔ +8↔ +9↰ Pressing the ► key once will increase the user counter extender by one. Pressing the ◄ key once will decrease the user counter extender by one.
02 Clear the user counter 02.User Counter Clear=<>	When pressing the ► key and the ◄ key simultaneously, the user counter will be cleared. Then “Completed” will be displayed.
03 Displaying the system counter 03.System Counter 12345 (ex.)	Displays the total amount of scanned documents up to now.

Imprinter setting menu (by pressing the IMPRINT key)

If a post-imprinter is installed, you can set the following conditions.

Number, item and default display	Contents
• Pressing the ▲ key will change to the next mode. • Pressing the ▼ key will change to the previous mode.	• Pressing the ► key or the ◄ key will change to another value.
11 Setting the post-imprinter data 11.Post Imprint Host • This setting can be done only when a post-imprinter is installed.	→Host ↔ Count← Host: Printing will be done according to the host computer. Count: Printing will be done according to the counter in the "Select counter displayed on the LCD".
12 Setting the post-imprinter position 12.Post Position Host • This setting can be done only when a post-imprinter is installed.	By pressing the ► key or the ◄ key, you can specify the line where printing starts from the top of the document. If "0" character is set, printing starts from 10.0 mm. The millimeter value displayed is an approximation. 12.Post Position <1 1Char> 12.3mm The length per character varies, depending on the 04 orientation setting. 90° or 270°: 2.38 mm per character 0° or 180°: 3.44 mm per character Character: 0 - 72 • In this example, printing starts at 12.38 mm (approx. 1/2 in.) from the top of the paper. The number 12.38 can be changed from 10.0 to 181.36 by pressing the ► key or the ◄ key. 
13 Setting the post-imprinter font style 13.Post Font Host • This setting can be done only when a post-imprinter is installed.	→Host ↔ Bold ↔ Normal← Bold: 2-dots font Normal: 1-dot font that can increase the ink lifetime longer than Bold fonts.

14 Setting the post-imprinter orientation

1	4	.	P	o	s	t		O	r	i	e	n	t	a	t	i	o	n	
																H	o	s	t

- This setting can be done only when a post-imprinter is installed.

→Host ↔ 0° ↔ 90° ↔ 180° ↔ 270° ←

: Transfer direction

0°	Prints portrait orientation.	A B
90°	Rotates character string 90 degrees and prints.	BA
180°	Prints portrait orientation from the end of the character string.	BA
270°	Rotates character string 270 degrees and prints.	AB

15 Cleaning the post-imprinter

1	5	.	P	o	s	t		C	l	e	a	n	i	n	g				
													E	x	e	c	=	<	>

When pressing the ► key and the ◄ key simultaneously, Post-Imprinter Cleaning will be executed.
Then “Completed” will be displayed.

Others setting menu (by pressing the OTHERS key)

Number, mode and default display • Pressing the ▲ key will change to the next mode. • Pressing the ▼ key will change to the previous mode.	Contents • Pressing the ► key or the ◄ key will change to another value.
01 Checking the version 01.Version MX.XX	MX.XX: Displays the mechanical control firmware version. IX.XX: Displays the Interface firmware version and the size of expansion memory. If a Interface board is not installed, the entry will not be displayed. BX.XX: Displays the post-imprinter firmware version. If a post-imprinter unit is not installed, the entry will not be displayed.
02 Setting the buzzer 02.Buzzer ON	ON ↔ OFF
03 Setting the SCSI ID 03.SCSI ID No. 6	When the wide SCSI setting is enable: 0↔1↔2↔3↔.....13↔14↔15 When the wide SCSI setting is disable: 0↔1↔2↔3↔4↔5↔6↔7 • Setting the SCSI ID will be activated after turning the power off and turning it on again.
04 Setting the wide SCSI 04.Wide SCSI Enable	Sets “Enable” or “Disable”. • Setting the wide SCSI will be activated after turning the power off and turning it on again.
05 Setting the transfer rate 05.Transfer Rate 20MByte/sec	When the wide SCSI setting is disable: 20 MByte/sec ↔ 10 MByte/sec When the wide SCSI setting is enable: Wide 40 MByte/sec ↔ Wide 20 MByte/sec • Changes the maximum value of the synchronous transfer rate of the SCSI interface. • Lower the synchronous transfer rate to 10 Mbytes/sec. if the computer has failed to recognize the scanner or the scanner fails to operate properly.
06 Checking the roller cleaning warning 06.Clean Roller Warning 0%	0%: This is displayed when “Clean Roller Warning ◯◯%” is cleared. 100%: This is displayed when the roller needs to be cleaned.
06 Clearing the roller cleaning warning 06.Clean Roller Warning Clear=<>	When pressing the ► key and the ◄ key simultaneously, “Clean Roller Warning” will be cleared. Then “Completed” will be displayed.

07 Checking the roller modules replacement warning

0	7	.	R	e	p	l	a	c	e		R	o	l	l	e	r			
				W	a	r	n	i	n	g								0	%

0%: This is displayed when “Replace Roll. Warning ◯◯%” is cleared.
100%: This is displayed when the roller modules need to be replaced.

07 Clearing the roller modules replacement warning

0	7	.	R	e	p	l	a	c	e		R	o	l	l	e	r			
				W	a	r	n	i	n	g		C	l	e	a	r	=	<	>

When pressing the ► key and the ◄ key simultaneously, “Replace Roll. Warning” will be cleared. Then “Completed” will be displayed.

08 Setting the product ID

0	8	.	P	r	o	d	u	c	t		I	D							
											K	V	–	S	3	1	0	5	C

0	8	.	P	r	o	d	u	c	t		I	D							
												K	V	–	S	3	0	8	5

KV-S3105C

↱KV-S3105C ↔ KV-SS905C ↔ KV-SS855 ↰

KV-S3085

↱KV-S3085 ↔ (KV-SS905C)* ↔ KV-SS855 ↰

The applications for the scanner which have been set can be used.

- An error results if an attempt is made to use a function which are not provided with the KV-S3105C/KV-S3085 series of scanners.
- No guarantees are given for complete compatibility.

* KV-SS905C is displayed only when the color upgrade kit (KV-SS029) option is installed.

09 Setting the sleep mode

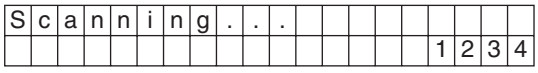
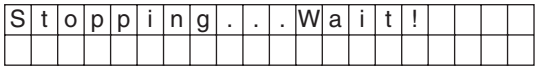
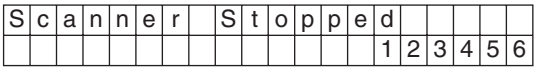
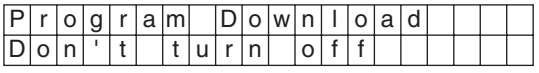
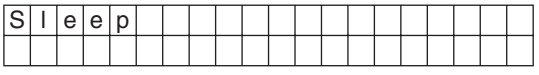
0	9	.	S	l	e	e	p		M	o	d	e							
								A	f	t	e	r		1	5	m	i	n	.

To conserve energy and operating cost, this scanner is provided with a programmable power save feature. The scanner is factory set with the power save feature (sleep mode) turned on to comply with ENERGY STAR requirement. If sleep mode is enabled, the scanner enters the sleep mode when the scanner is idle for 15 minutes.

↱After 1 min. ~ After 60 min. ↔ Disable ↰

- 1 min. ~ 60 min.
- To return from the sleep mode, press any key on the scanner or issue the scan instruction from the application.

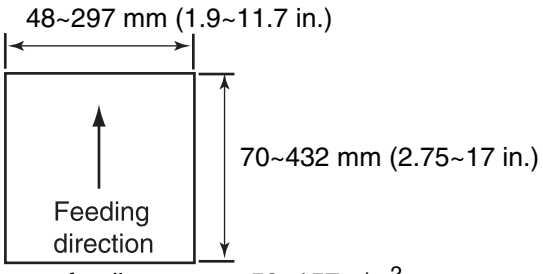
Other display explanations

Display	Content
	This will be displayed when scanning is started until it is completed. After completion, “Ready” will be displayed.
	If the STOP key is pressed, scanning will stop. This will be displayed when the STOP key was pressed during scanning. Even if the STOP key is pressed in a setting mode, this will be displayed. Then the scanner will return to setting mode after stopping scanner operation.
	This will be displayed when the STOP key is pressed and the scanner stops. Even if the document remains in the scanner, “JAM” will not be displayed. If the document remains in the scanner, open the front door and remove it. Then “Ready” will be displayed.
	This will be displayed after setting scanning to start with a host computer. If the document is set and the START key is pressed, scanning will start.
	This will be displayed while a system program is downloaded. Do not turn the scanner’s power off while this message is displayed.
	If sleep mode is enabled, the scanner enters the sleep mode when the scanner is idle for the specified time. The back light goes off, “Sleep” appears on the LCD and the LED on the display panel starts flashing slowly in orange. For setting the sleep mode, see page 26. By pressing any key on the scanner or issuing the scan instruction from the PC, the scanner returns from the sleep mode.

Loading Documents

Acceptable documents

Document size:



Paper thickness:

Continuous paper feeding	50~157 g/m^2
Single paper feeding	30~157 g/m^2
Document smaller than A7 width	Thicker than 127 g/m^2 (34 lbs.)

Straight path pass:

The document with a thickness of 0.2 mm to 0.6 mm

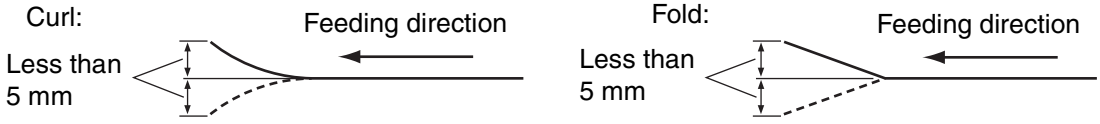
If you scan the other types of documents, paper jamming or multiple-sheet feeding may occur.

- When scanning long paper, select the straight path pass and adjust the document guide on the hopper correctly.
- When scanning thin documents [less than 60 g/m^2 (16 lbs.)] or small document (less than A6 size), be sure to use less than 500 sheets.
- The height of the document should not exceed the limit mark on the document guide.
- When scanning multiple sheet paper, refer to page 29. (Scanning multiple-sheet paper)

Recommendable paper: Plain paper

The following types of documents may not be scanned properly.

- Broken or notched documents
- Curled, wrinkled or folded documents



- Perforated or punched documents
- Not rectangular or irregularly shaped documents
- Tracing paper
- Thermal paper

When scanning is not performed properly, try the following methods:

- Set the feed speed to “Slow”.
- Scan the documents by manual feeding.
- Set the paper path selector to straight.

The following types of documents may cause frequent jams and double feeding.

- Extremely smooth or shiny paper or paper that is highly textured
- Paper with carbon
- Carbonless paper

If a paper jam or double feeding occurs, clean the rollers.

When a jam occurs at the document feeder, reduce the number of sheets loaded on the hopper to about 20.

Types of documents to avoid

- OHP sheets, other plastic films, cloths, or metallic sheets.
- Paper with irregularities such as tabs, staples, paste, etc.
- Documents with wet ink
- Thick or irregular documents such as envelopes, documents that are glued together, etc.

Be sure to remove the document from the exit tray after it is scanned.
When scanning different size documents, scanned sheets may need to be reordered for optimum performance.
Thick, thin or important document should be scanned by fed manually one sheet at a time.

■ When scanning multiple sheets

Cautions:

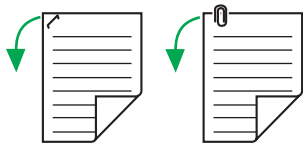
- Please remove any staples from the document before scanning.
- Curled documents may cause a paper jam or damaging the unit, so please set the document flat before scanning.
- When scanning very important documents, confirm if the number of scanned images matches the number of actual pages.

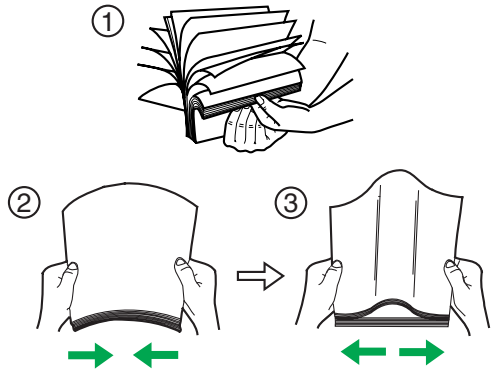
1 Documents that have been stapled together or stacked together (as in a file folder) will need to be separated.

① Fan the stack of documents to separate all the edges.
② Hold both ends and bend the documents as shown in the illustration.
③ To flatten the documents, hold firmly and pull them apart as shown in the illustration.

Repeat these steps as necessary.

Prior to scanning, remove, all staples and paper clips from pages.

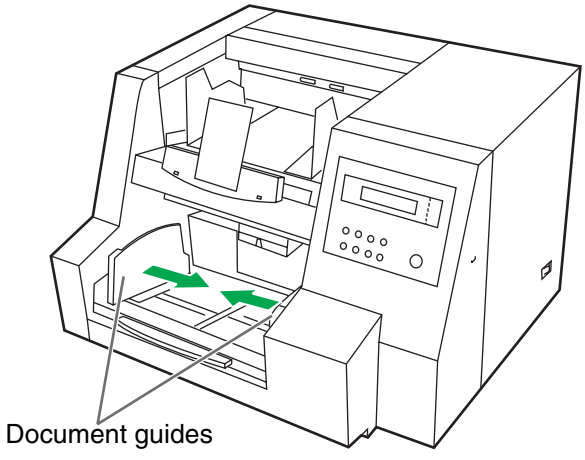


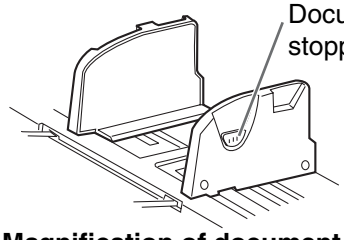


2 Carefully align the documents.

3 Adjust the document guides slightly larger than the actual size of the documents.

- **Squeeze in the document guide stopper on the right in order to slide the document guide.**



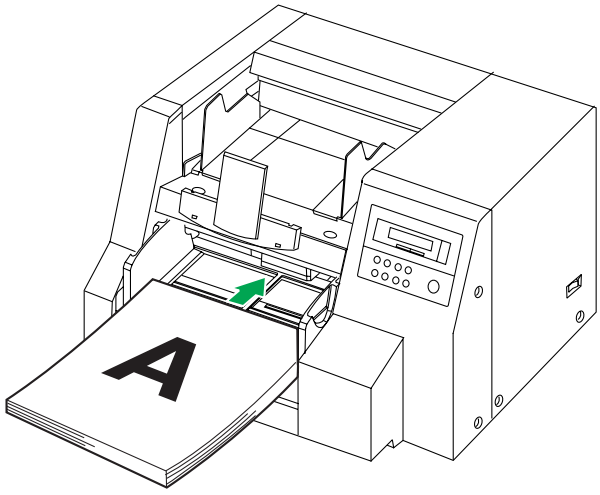


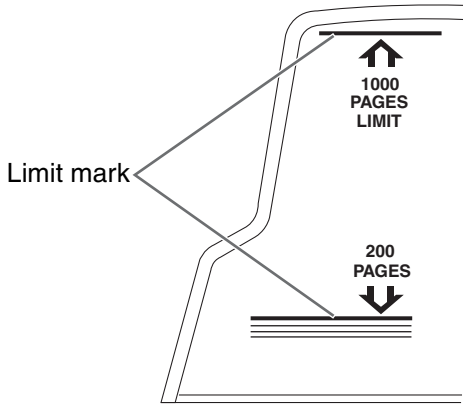
Magnification of document guide

4 Place the documents on the hopper with the side to be scanned facing up. Then push them in the direction of the arrow until they stop.

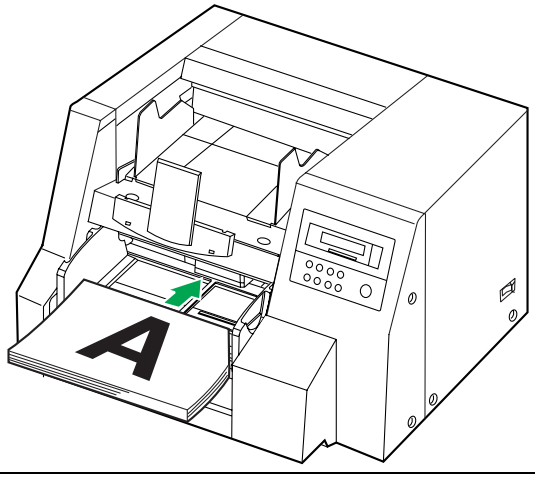
- **Be sure to place the documents on the hopper as shown in the diagram at the right.**
  The amount of documents should not exceed the limit mark on the document guide. This may cause a paper jam or skew.

Portrait

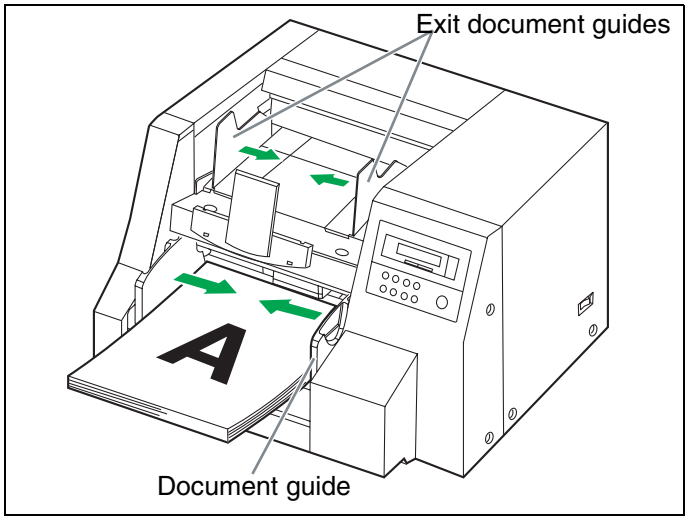




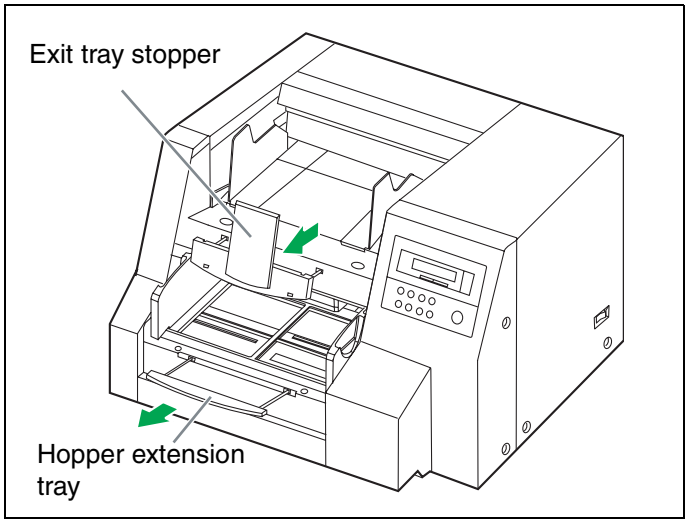
Landscape



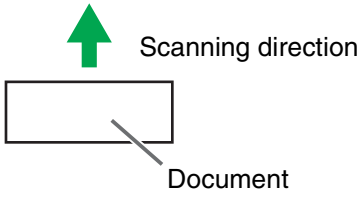
5 Adjust the document guides to the size of the document to be scanned.
Adjust the exit document guides to the size of the document to be output, if required.

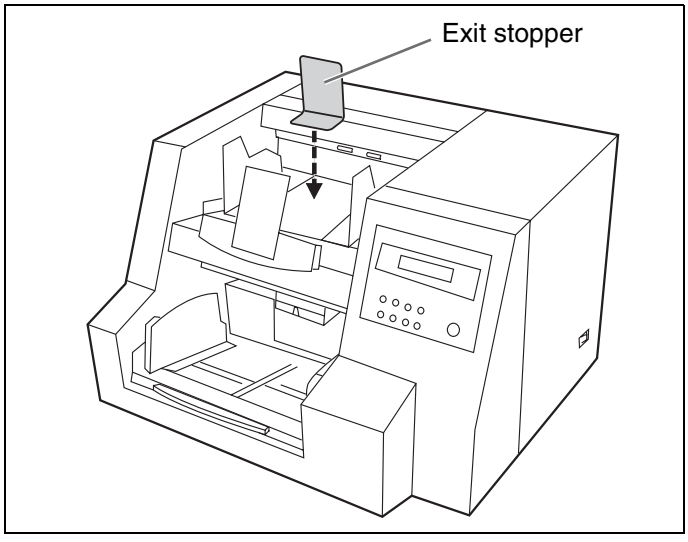


6 When using paper longer than letter size, pull out the hopper extension tray from the hopper and the exit tray stopper from the front door as shown in the diagram at the right.



- **When scanning short length documents, please install the exit stopper.**



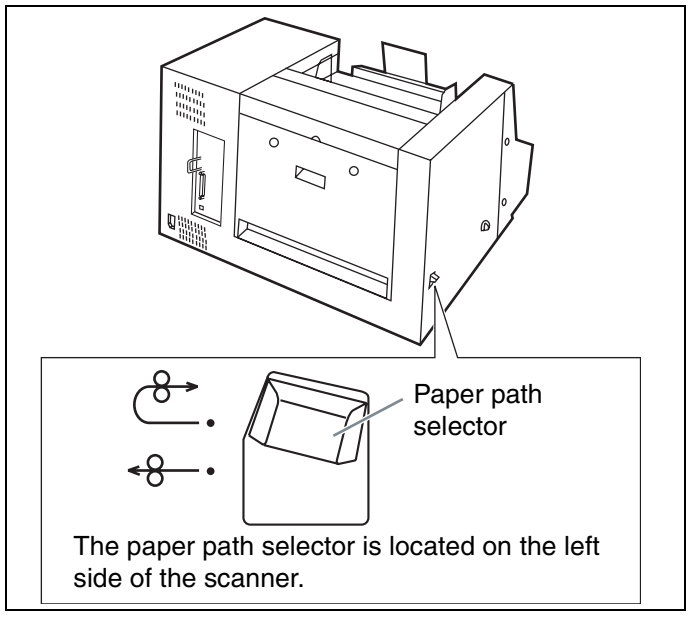


Paper Feed Settings

■ Selecting the paper path for scanned document

To select a U-turn path pass through to the front, set the paper path selector to the upper side.
To select a straight path pass through to the back, set the paper path selector to the lower side.

- **When scanning documents with a thickness of 0.2 mm to 0.6 mm, like folded documents, set the paper path selector to straight path.**



The paper path selector is located on the left side of the scanner.

■ Setting the ADF selector

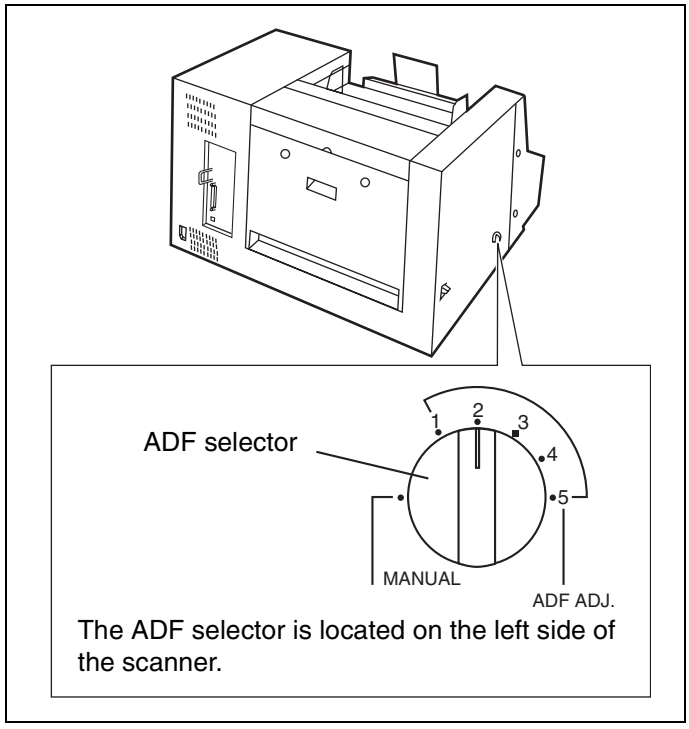
● Single scanning

When scanning a single sheet or several sheets, set the ADF selector to "MANUAL".

● Continuous scanning

Setting Position	Status
1	When double feeding occurs at the paper feed component.
2	When double feeding occurs frequently or scanning a document with a rough face as in carbonless paper
3 (Standard setting)	When scanning normal paper
4	When scanning with smooth sided paper or a paper jam occurs with normal paper
5	When a jam occurs at the paper feed component

- **The ADF selector must be set in the correct position for this setting to function properly.**
- **If double feed alarm beeps frequently, change the ADF selector.**



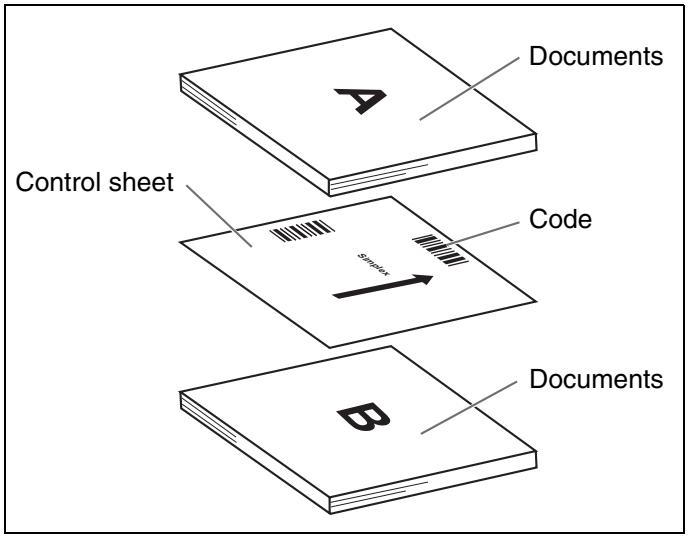
The ADF selector is located on the left side of the scanner.

- If thin paper (with paper weight 40 to 50 g/m^2) causes a paper jam frequently at the paper feed component, the optional roller exchange kit for thin paper (KV-SS027) is available.

Others

■ How to use the control sheet and separation sheet

If the control sheet is used, the documents under the control sheet are scanned in accordance with the code on the control sheet regardless of scanning condition that is selected previously.



- **Multiple control sheets can be used.**
- **When using a control sheet, the application software required depends on the control sheet.**
- **Print out control sheets from the provided CD-ROM.**

Cautions:

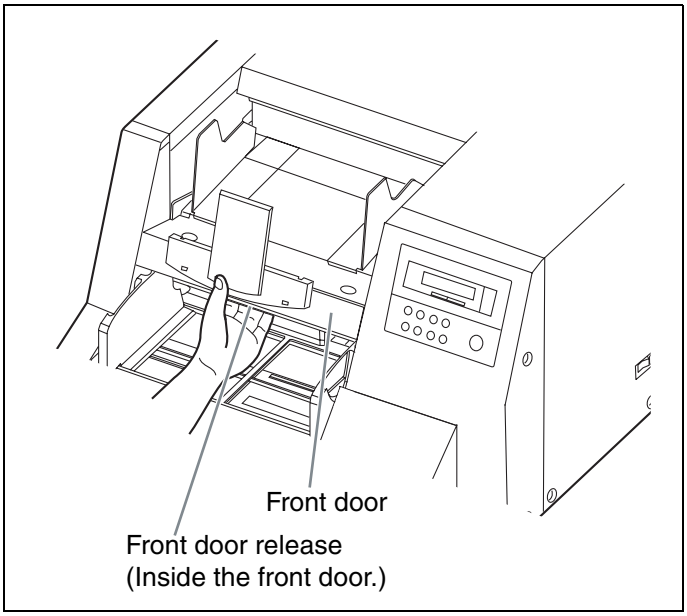
- **Use the same size control sheet as the scanning document.**
- **When printing the control sheet, if the pattern falls in the area from the top side of the document to 25 mm, adjust the printer.**
  Also, copy the control sheet so that the pattern lies in the center of the copy.
- **Be careful not to get the control sheet dirty.**
  Do not fold or crease the control sheet. Scanning will not be performed properly.
- **For details on control sheet and separation sheet, refer to section 3.35 Detect Control Sheet and section 3.36 Detect File Separation Sheet in the PIE Reference Manual.**
- **Control sheet functions:** Simplex
  Duplex
  Binary
  Dither
  Error diffusion
  Dynamic Threshold
  256 level gray
  Color
  Function #1-#9

Changing the Reference Plate Setting

You can choose a background color to be scanned from white (black) to black (white). The scanner comes from factory set to black. The refrence plate (B) and reference plate (F) setting must be changed simultaneously.

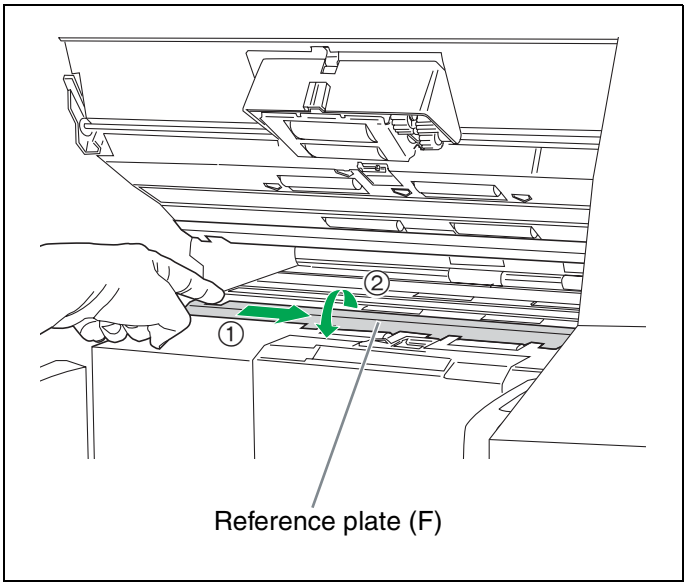
1 Using your hand, pull the front door release towards you. Then open the front door completely.

- **The front door now opens slowly.**



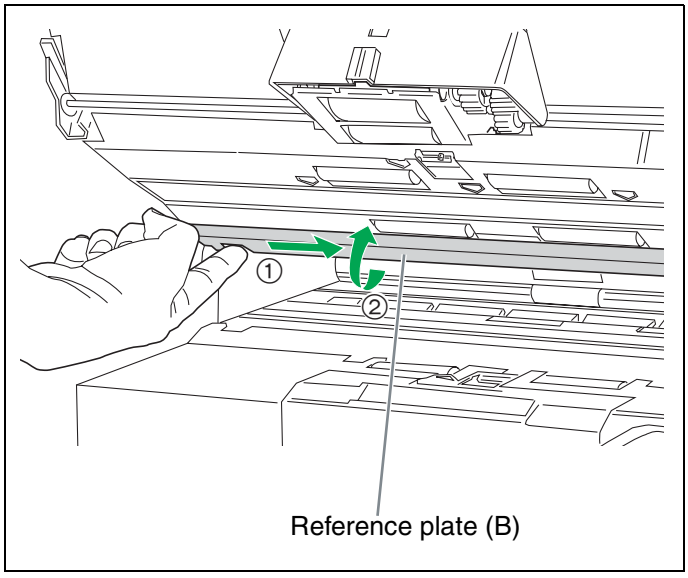
2 Using your finger, slide the lower reference plate to the right (①) and turn it over (②), then release it. The lower reference plate returns to the left (original position) automatically and will be locked.

- **Confirm that the reference plate does not rotate after turning it over.**



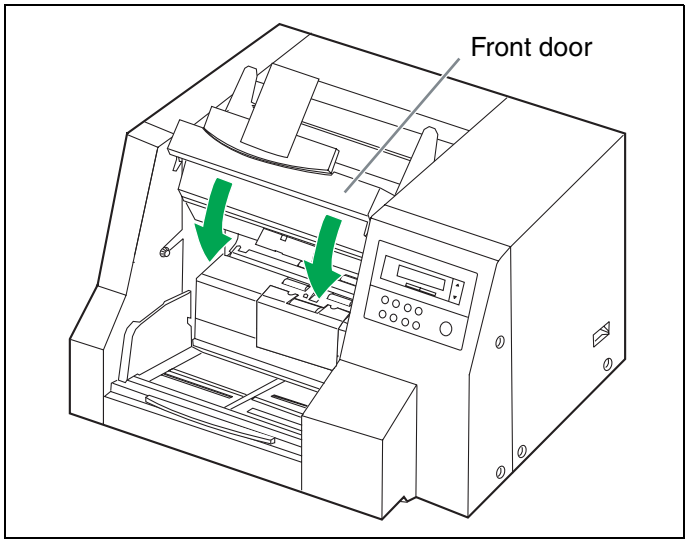
3 Using your finger, slide the upper reference plate to the right (①) and turn it over (②), then release it. The upper reference plate returns to the left (original position) automatically and will be locked.

- **Confirm that the reference plate does not rotate after turning it over.**



4 Close the front door.

- **Push the front door down slowly until it clicks into position.**
- **Be sure not to close the front door when the reference plate is in the rotary position, so that not to damage it. Using your finger, push the left end of the reference plate again to make it return to original position.**



5 When the reference plate setting is changed, turn the power switch off and on again.

Clearing Paper Jams

Torn documents, thin documents or documents that are creased on the top edge may cause paper jams. If a paper jam occurs (“Uxx JAM” will be displayed on the LCD), remove the jammed sheet according to the following procedure.

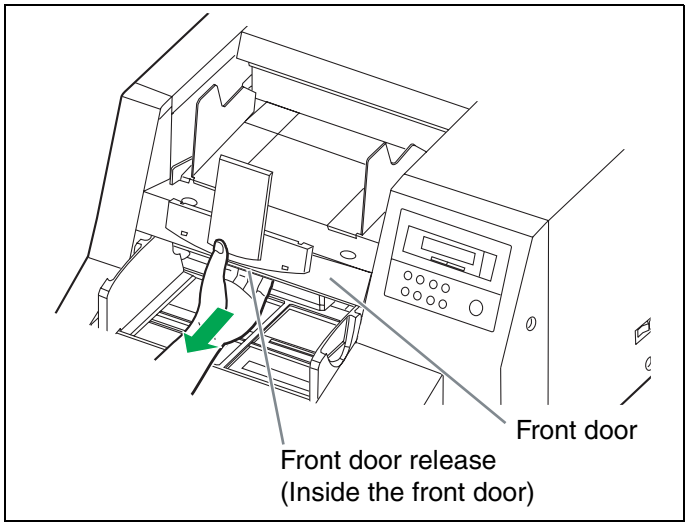
■ Removing paper jams from the feed part

Using your hand, pull the front door release towards you.

- **The front door now opens slowly.**

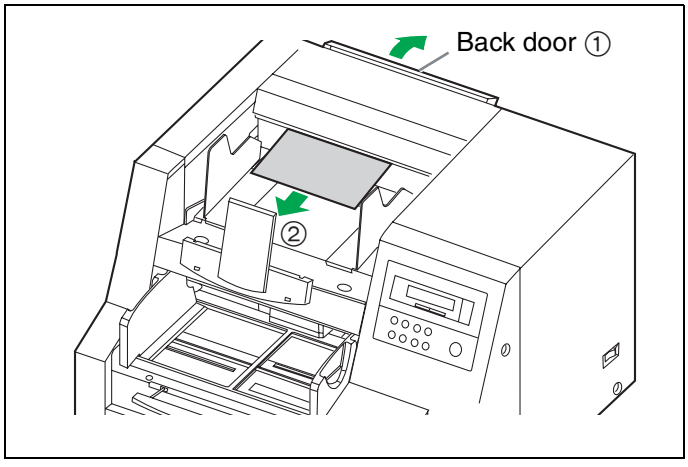
Remove the jammed document and close the front door.

- **Push down both sides of the front door gently until it clicks into place.**



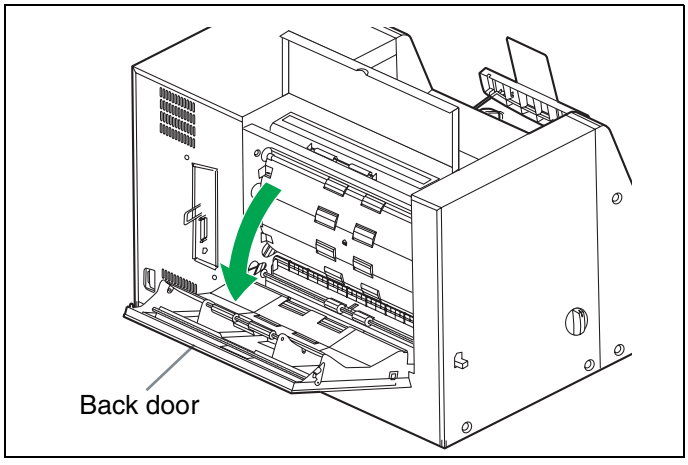
■ Removing paper jams from exit path

If jammed document appears at the exit part, open the back door (①) and pull the document forward (②) then close the back door.



■ If the paper cannot be removed by pulling it forward

Open the back door by pulling the back door release, and remove the jammed documents, then close the back door.



Cleaning the Unit

■ Outside of the scanner

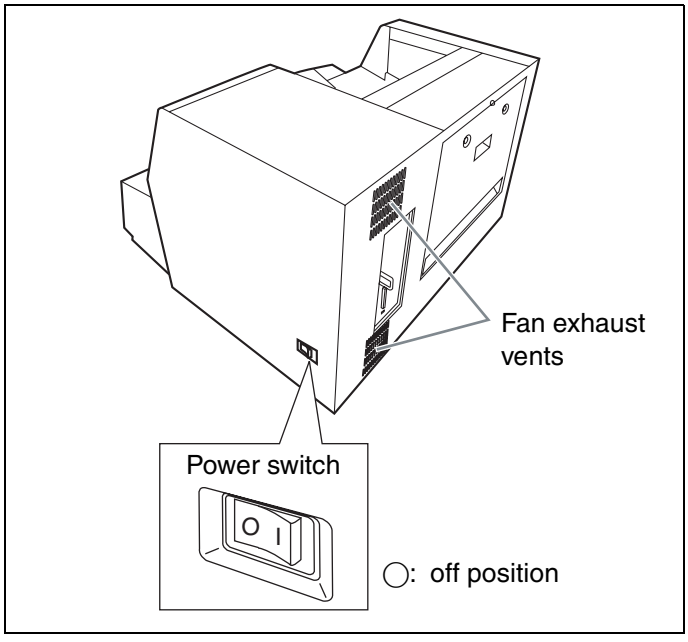
Clean the unit at least once a month.

1 Turn the power off.

2 Clean the cover with a soft cloth.

- **The document insertion and exit slots get dirty easily. Make sure to clean them.**

3 Remove dirt and dust from the fan exhaust vents with a brush.



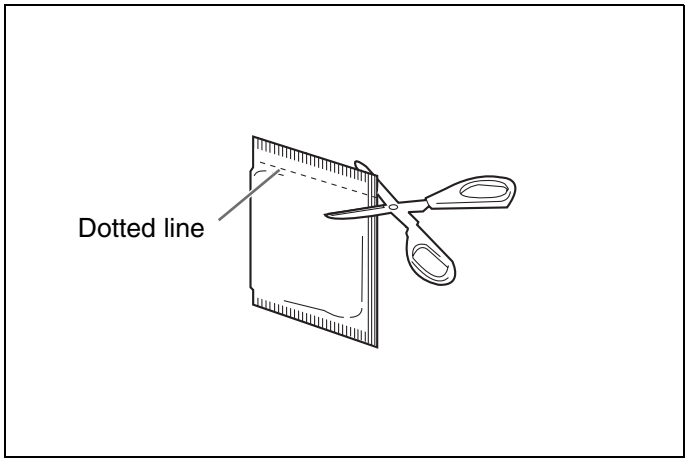
■ Inside the scanner

- Clean the unit at least once a week or when 20,000 sheets have been scanned, whichever comes first.
- Clean the rollers, sensors and double feed detectors if paper jamming or double feeding occurs frequently. (See pages 38–42.)
- Clean the scanning section glasses and reference plates when black or white lines appear on the scanned images.
  (See page 41.)
- If the documents you are scanning are dirty, then the scanner parts will become dirty as well.
  To maintain proper scanning, clean the scanner parts frequently.
- After scanning operations, the surfaces around the scanning section glasses and the reference plates may be hot. Wait for them to cool before cleaning inside the scanner.

■ Roller cleaning paper

Open the bag on the dotted line and take out the roller cleaning paper.

- **If the roller cleaning paper bag is left opened for a long period of time before using it, the alcohol will evaporate. Please use the roller cleaning paper immediately after opening the bag.**



The roller cleaning paper (Model No. KV-SS03) is available from the dealer where you purchased your scanner.

For supplies and accessories: Call 1-800-346-4768 (U.S.A. only) or your dealer.

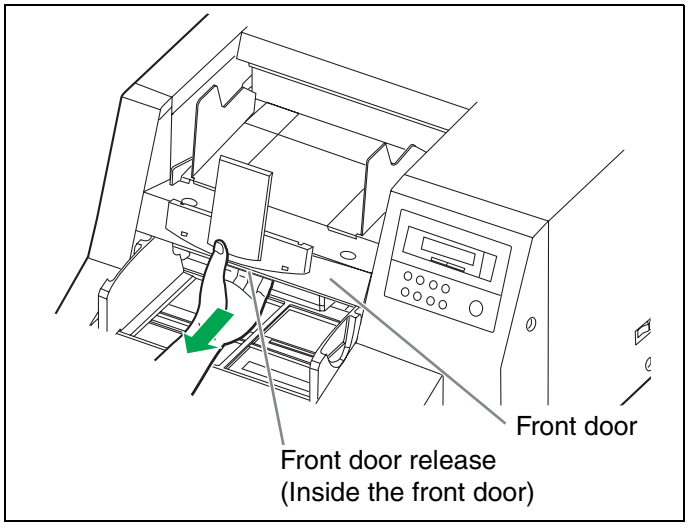
■ Cleaning the rollers

When the display shows “Warning Clean Roller”, follow the steps below to clean the rollers.

1 Turn the power off.

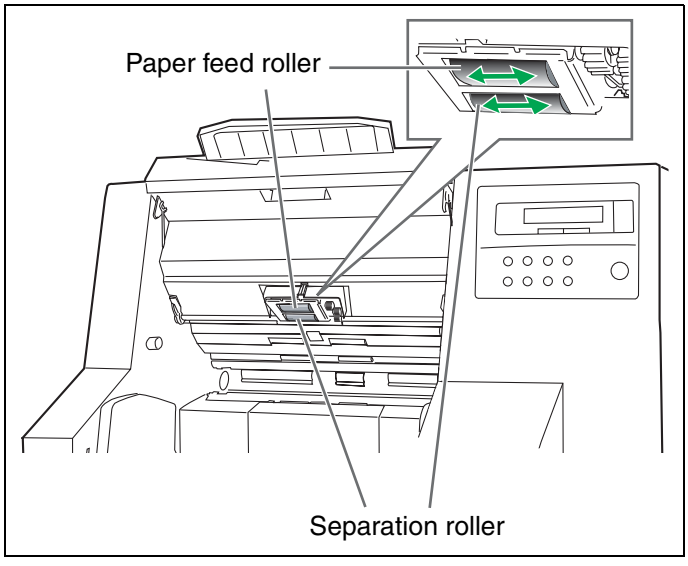
2 Using your hand, pull the front door release towards you.

- **The front door now opens slowly.**

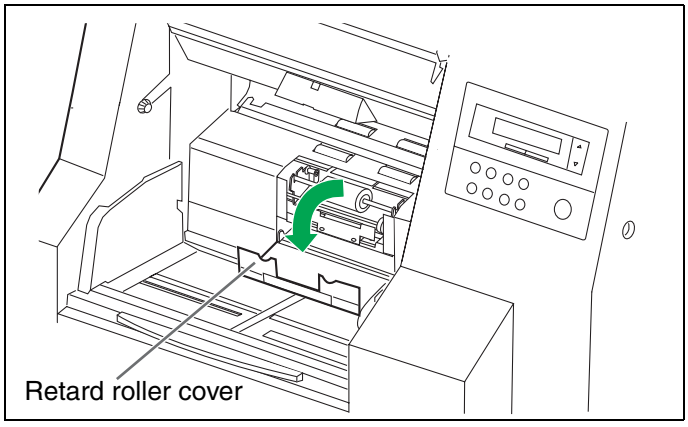


3 Use the roller cleaning paper (KV-SS03) to remove the dirt from the surfaces of the paper feed roller, separation roller.

- **When wiping off the dirt on the roller surfaces, hold the rollers to prevent them from rotating, and wipe the rollers all the way around them proceeding from one end to the other in the directions of the arrows shown in the diagram to the right.**

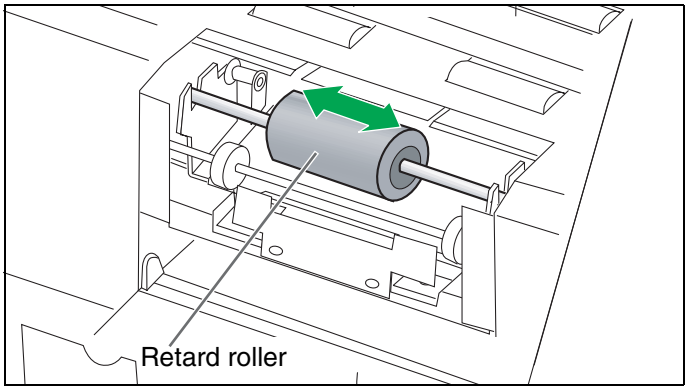


4 Open the retard roller cover.



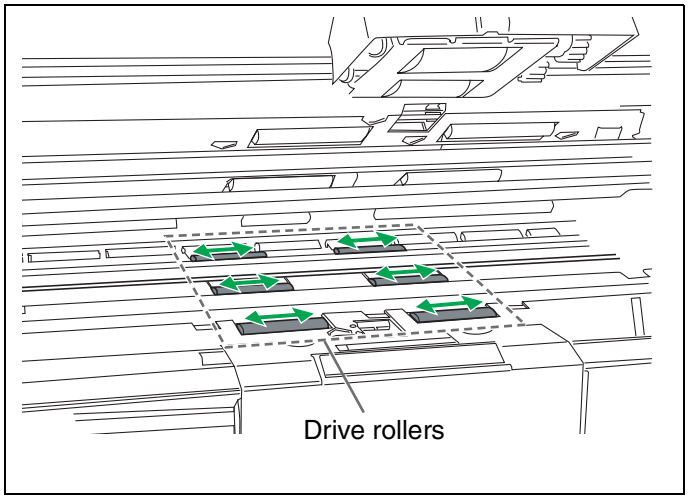
5 Use the roller cleaning paper to clean the surface of the retard roller.

- **Wipe the retard roller all the way around it proceeding from one end to the other in the direction of the arrow shown in the diagram to the right.**



6 Close the retard roller cover.

7 Use the roller cleaning paper to wipe off the dirt on the surfaces of six drive rollers.

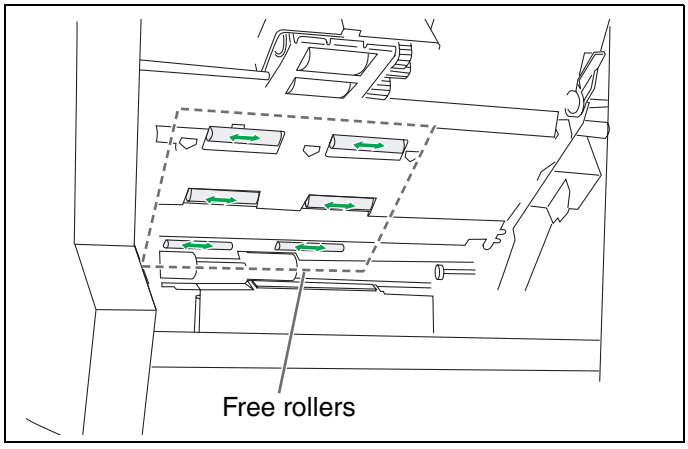


8 Use the roller cleaning paper to clean the surface of six free rollers.

- **Wipe all the way around them proceeding from one end to the other in the directions of the arrows shown in the diagram to the right.**

9 Close the front door.

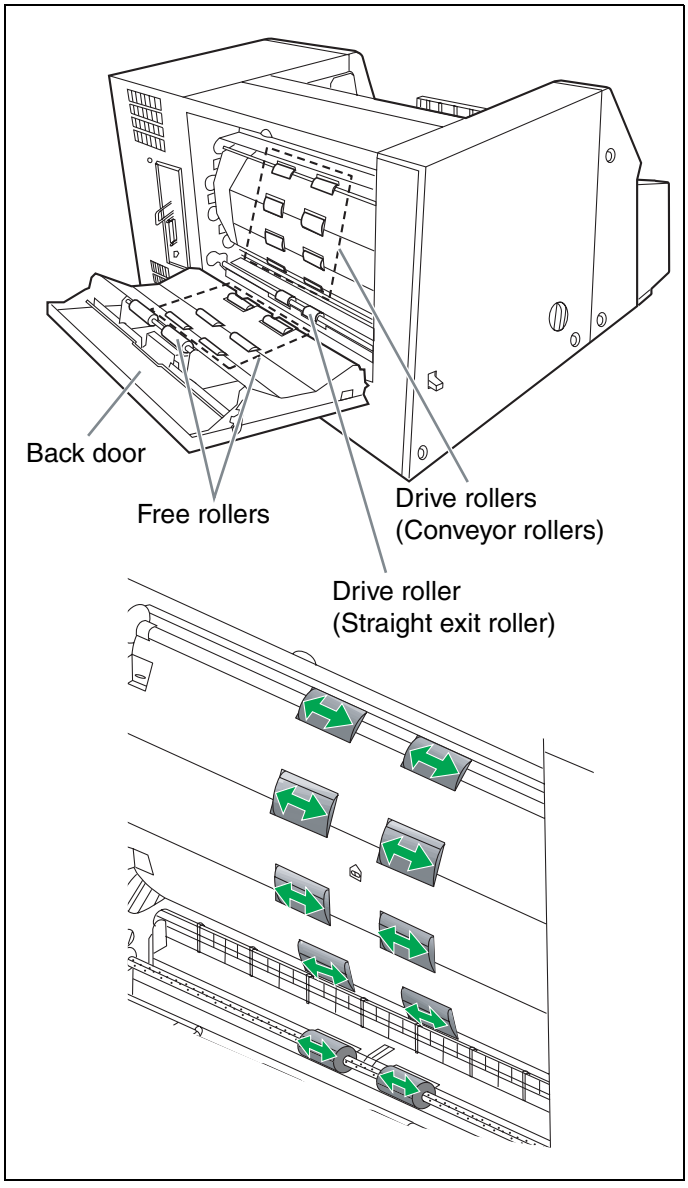
- **Push the front door down slowly until it clicks into position.**



10 Open the back door.

11 Use the roller cleaning paper to clean the surfaces of the drive rollers and free rollers.

- **Wipe the surfaces of the drive rollers and free rollers all the way around them proceeding from one end to the other in the directions of the arrows shown in the diagram to the right.**



12 Close the back door.

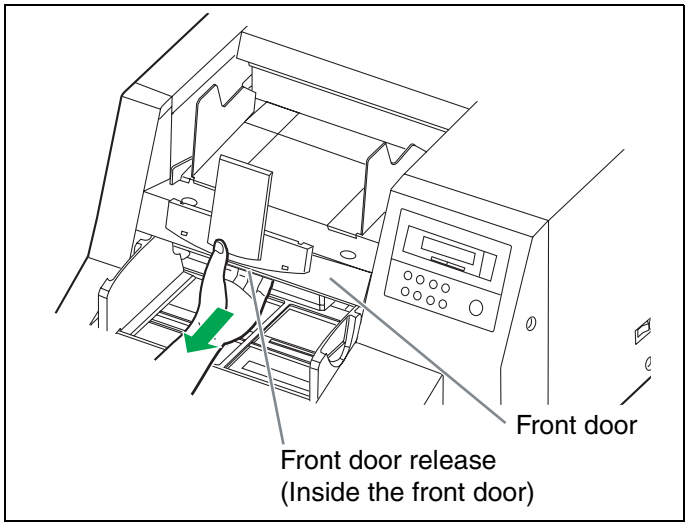
13 After cleaning, clear the “Warning Clean Roller” display.
(See page 25.)

■ Cleaning the scanning section glasses and reference plates

1 Turn the power off.

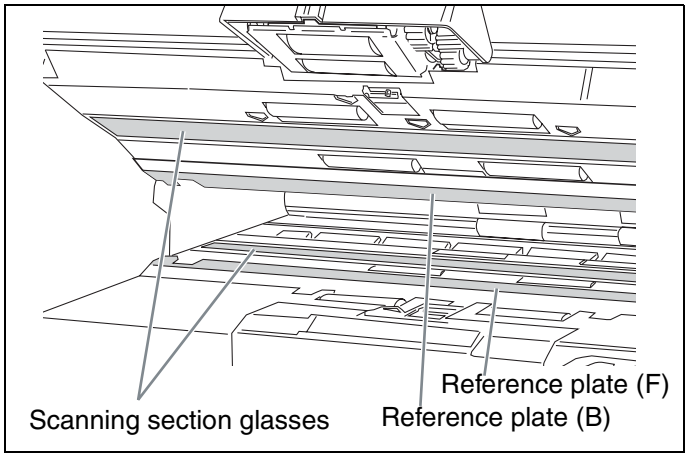
2 Using your hand, pull the front door release towards you.

- **The front door now opens slowly.**



3 Clean the scanning section glasses and reference plates using the roller cleaning paper.

- **When the reference plate slides toward right during cleaning, push the reference plate at the left side lightly and slide it to the left until it is placed in the original position.**



4 Close the front door.

- **Push the front door down slowly until it clicks into position.**

■ Cleaning the sensors

1 Turn the power off.

2 Using your hand, pull the front door release towards you.

- **The front door now opens slowly.**

3 Remove the dirt on the document sensors, double feed detector, paper sensor and reflectors with the included blower.

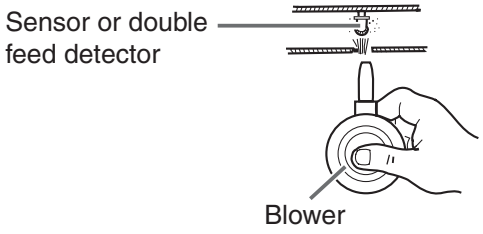
4 Open the back door by pulling the back door release, and open the post-imprinter door.

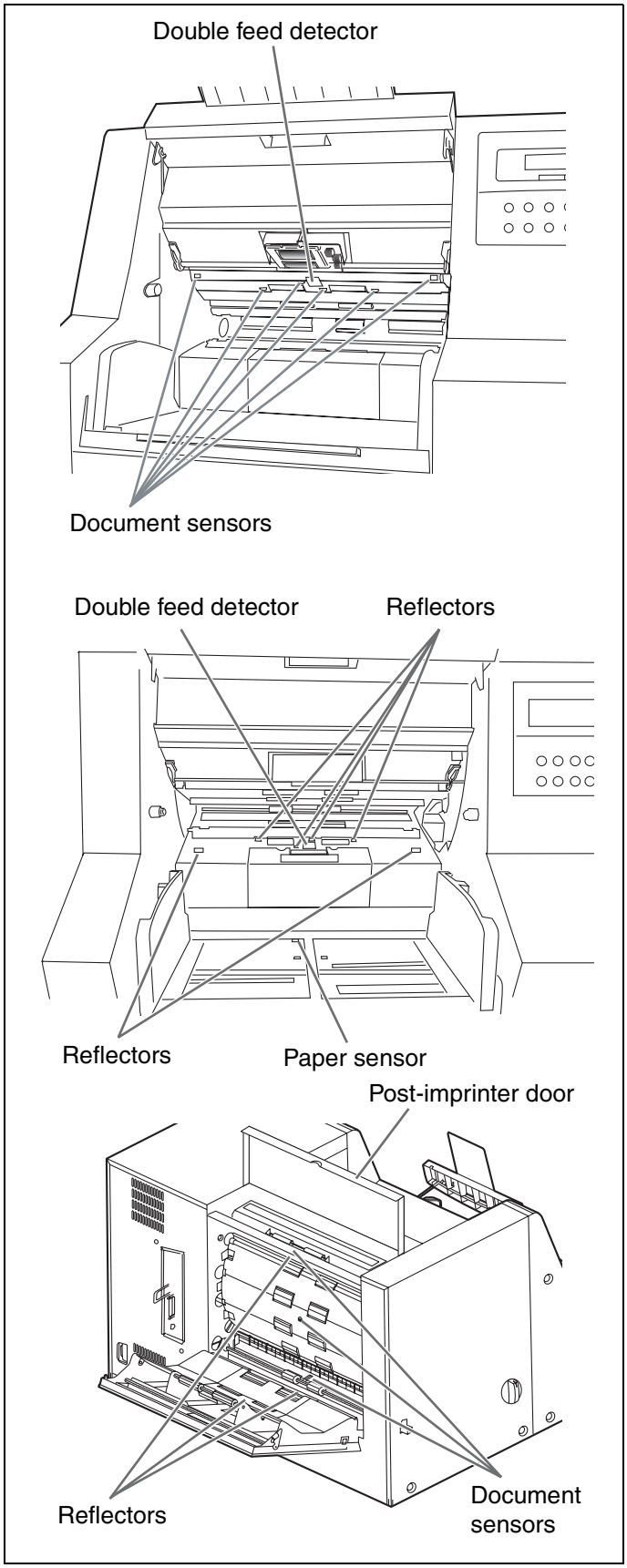
5 Also remove the dirt on the document sensors using included blower.

6 Close all doors.

● How to clean the sensors and double feed detectors

Remove the brush and blow off the dirt through the sensor hole or double feed detector hole.





Replacing Consumables

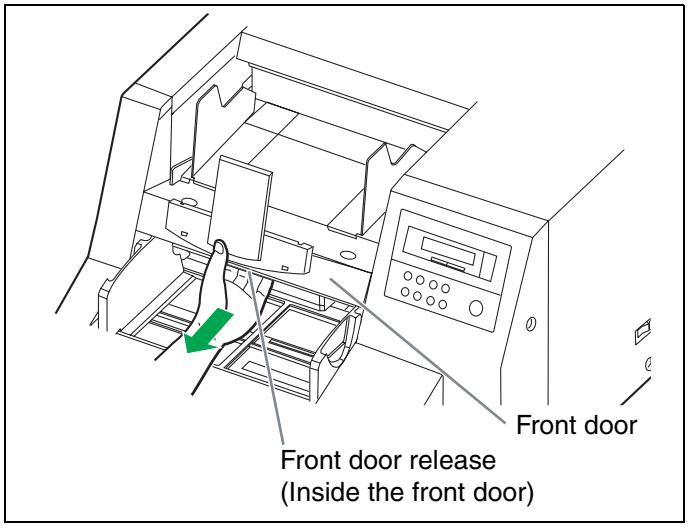
■ Replacing the paper feed roller module, retard roller module and retard pad

● Paper feed roller module

1 Turn the power off.

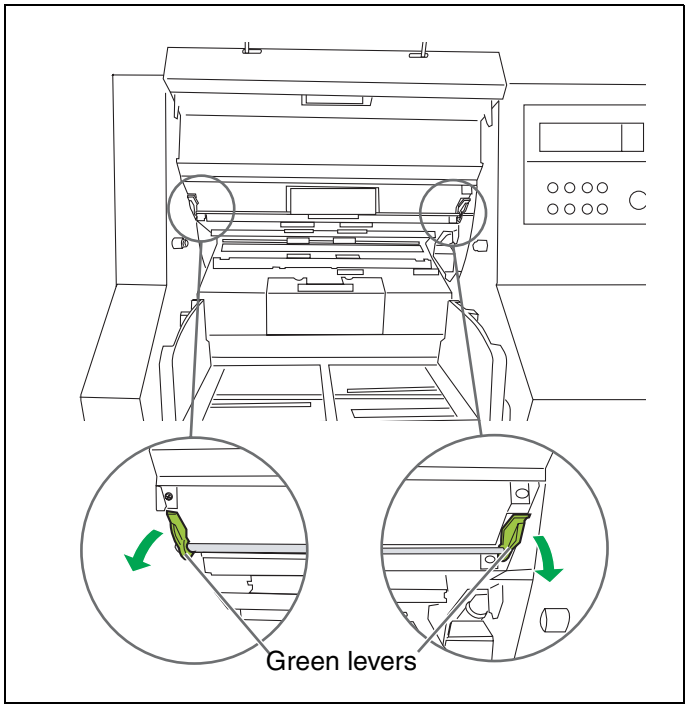
2 Using your hand, pull the front door release towards you.

- **The front door now opens slowly.**

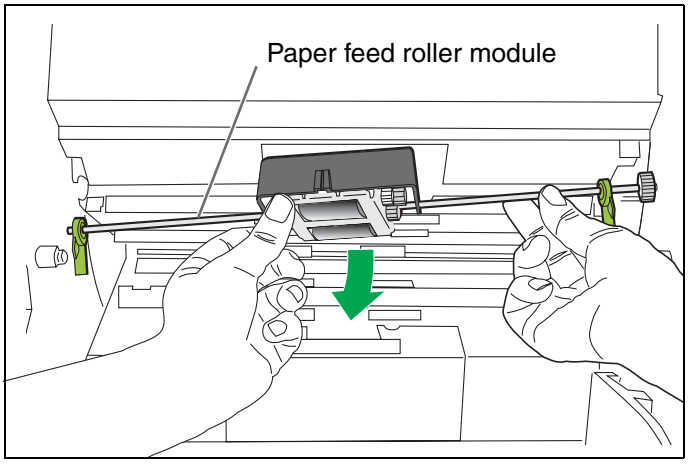


3 Push down the two green levers at both ends of the paper feed roller module to avoid breaking the green levers.

- **When moving the green levers, do not apply pressure in any other direction other than in the direction shown by the arrows. Otherwise the levers may break.**



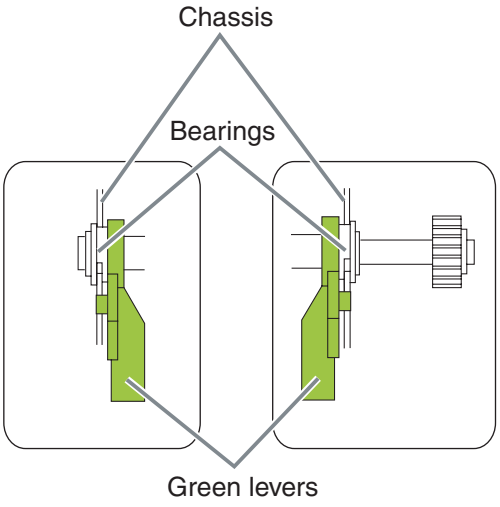
4 Remove the paper feed roller module by removing its bearing from the guide grooves of the chassis in the scanner.

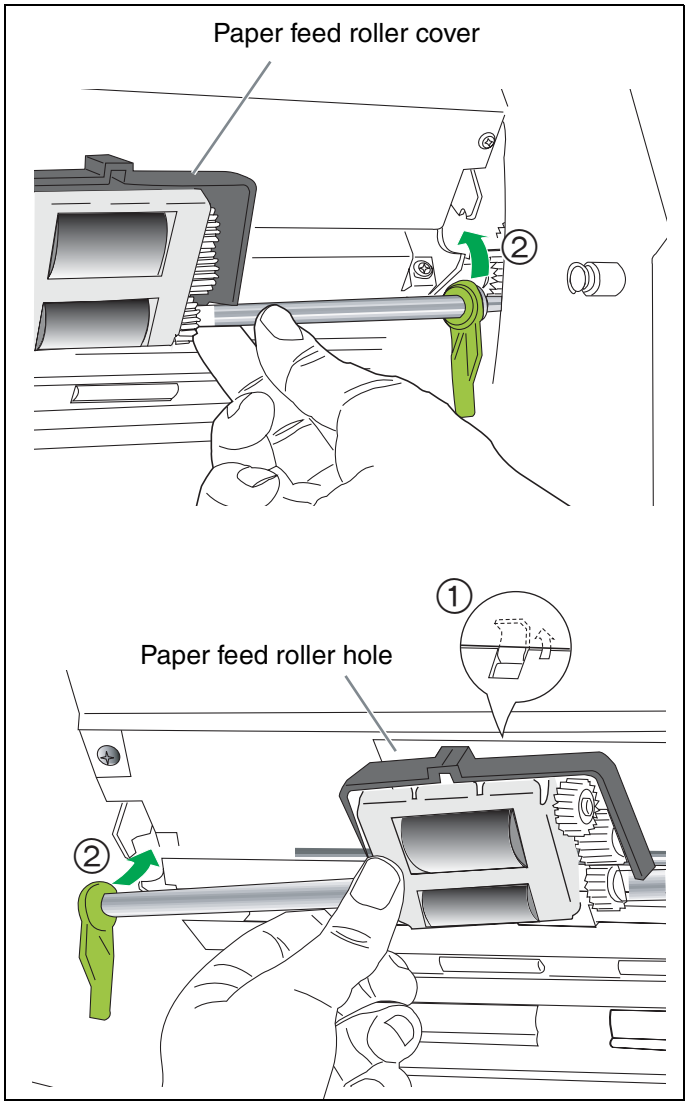


5 Open the optional “Roller Exchange Kit” (KV-SS026) or “Roller Exchange Kit for thin paper” (KV-SS027), and take out the new paper feed roller module.

6 Install the new paper feed roller module with its gear on the right.

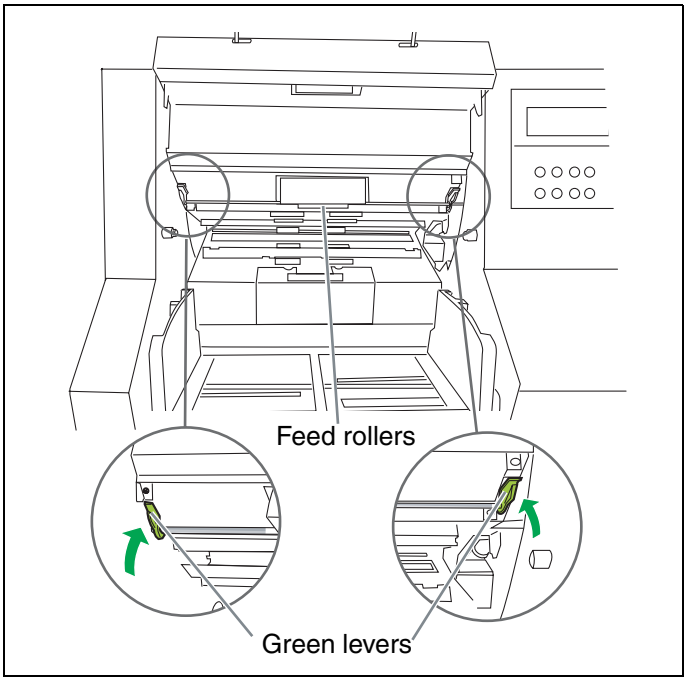
- **Insert the paper feed roller cover into the paper feed roller hole before attaching the bearings into the grooves of the chassis.** (①)
- **Attach the bearings at both ends of the paper feed roller module into the guide grooves of the chassis in the scanner.** (②)





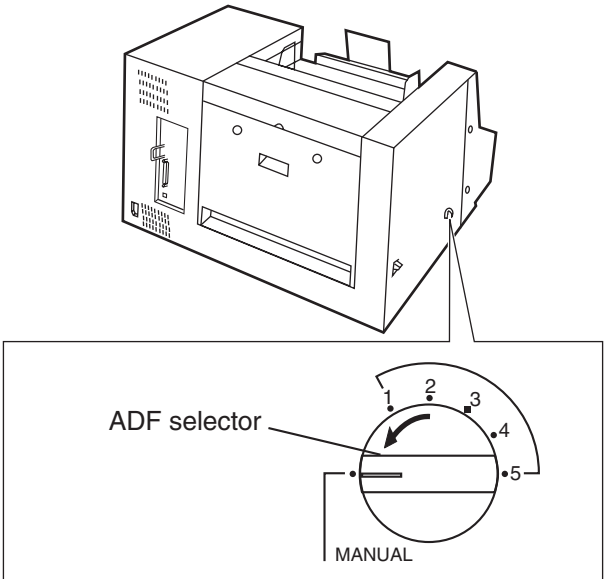
7 Push up the green levers at both ends in the direction of the arrows until they click into place.

- **After installing the paper feed roller module, confirm that the feed rollers can be moved lightly in vertical direction.**



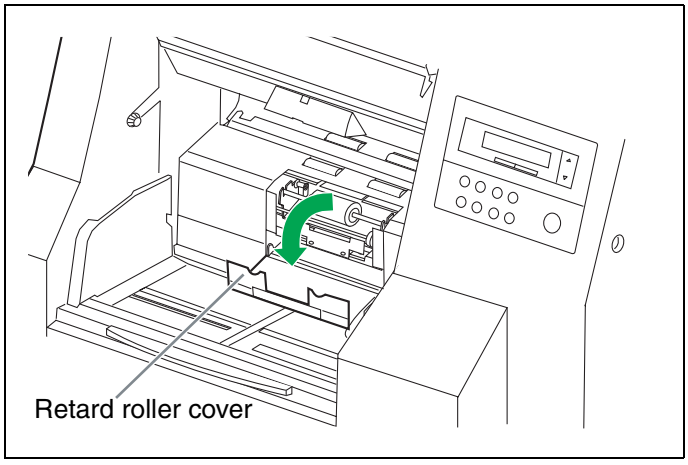
● Retard roller module

8 Set the ADF selector to the “MANUAL” position. (See page 32).

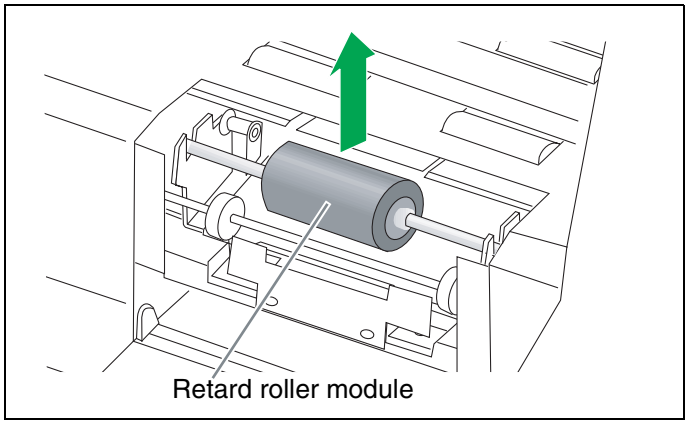


The ADF selector is located on the left side of the scanner.

9 Open the retard roller cover.



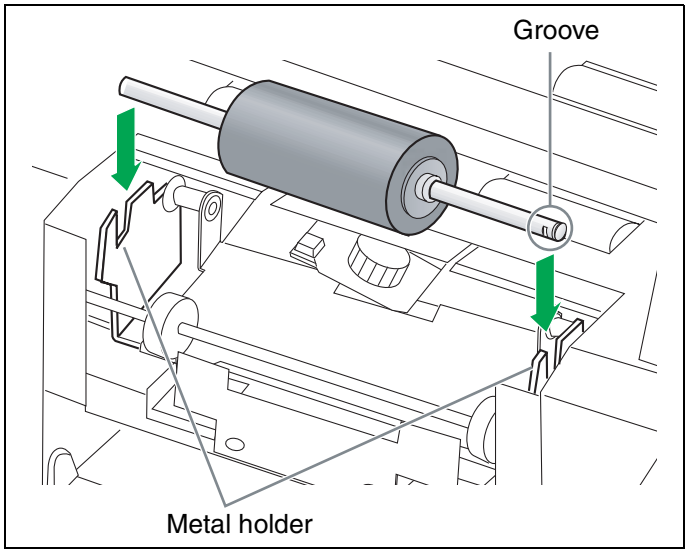
10 Remove the retard roller module in the direction of the arrow.



11 Take out the new retard roller module in the optional “Roller Exchange Kit” (KV-SS026) or “Roller Exchange Kit for thin paper” (KV-SS027).

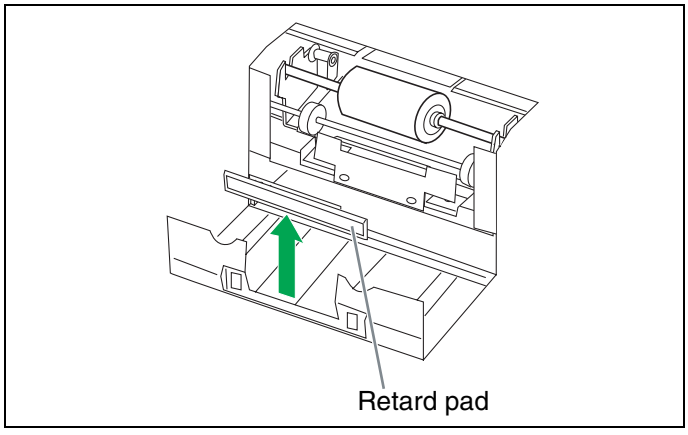
12 Install the new retard roller module by matching the groove of its right shaft with the groove of the metal holder.

- **Make sure that both ends of the shaft reach the bottom of the metal holder.**



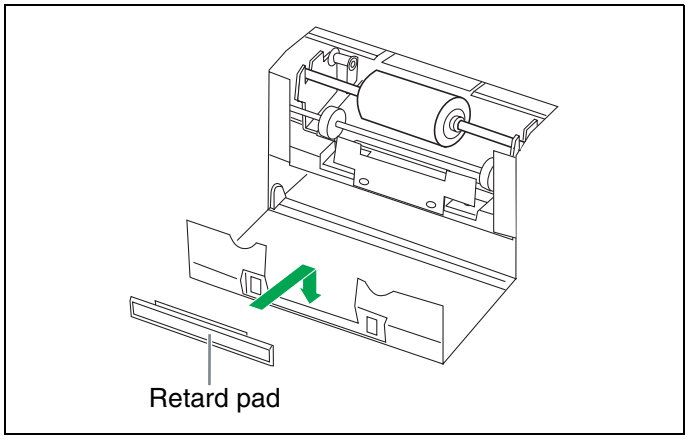
● Retard pad

13 Pull and remove the retard pad in the direction of the arrow.

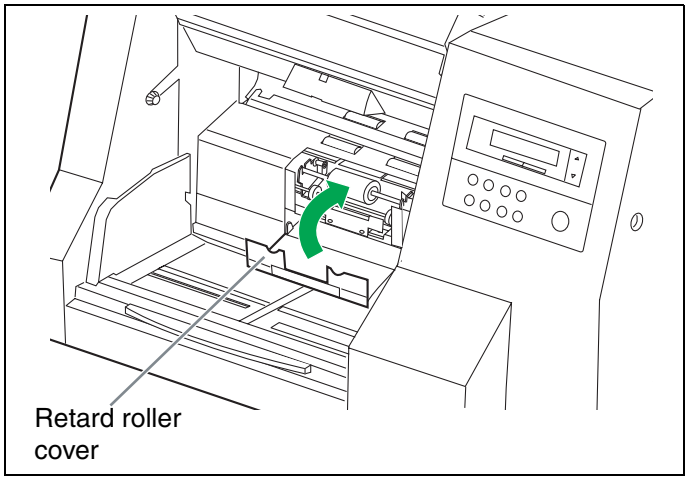


14 Open the optional “Roller Exchange Kit” (KV-SS026) or “Roller Exchange Kit for thin paper” (KV-SS027), and take out the new Retard pad.

15 Install the new retard pad by pressing it down until it is locked.

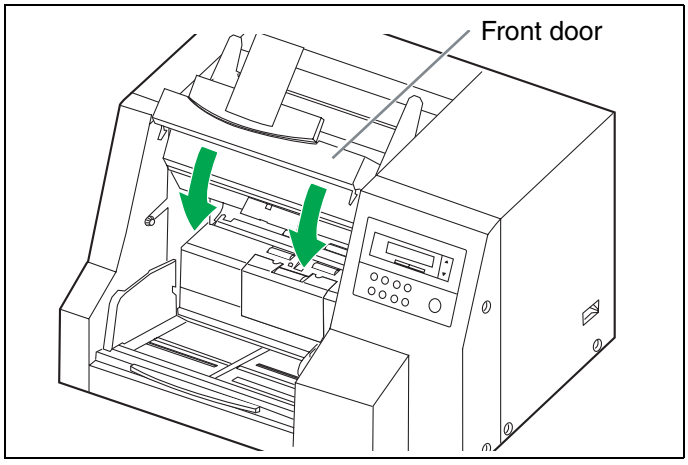


16 Close the retard roller cover.

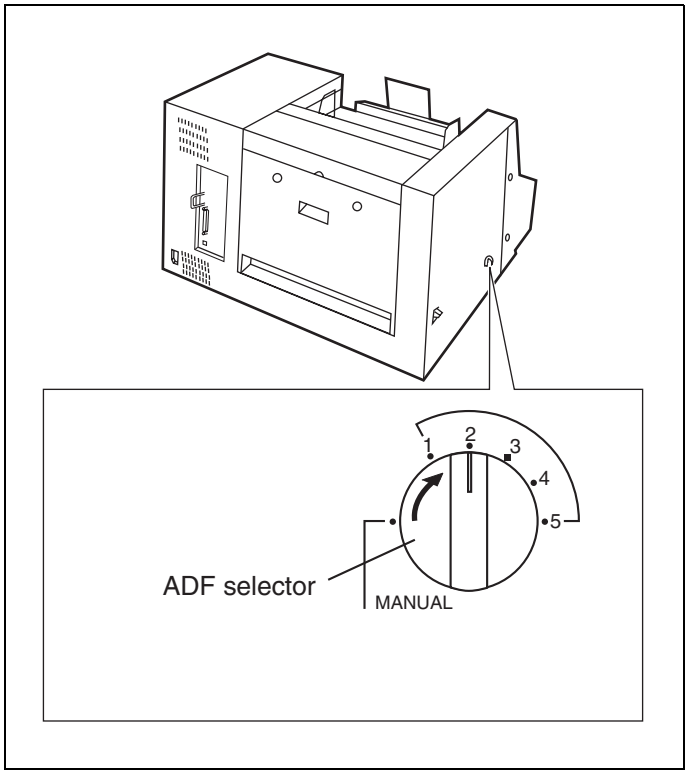


17 Close the front door.

- **Push down the front door slowly until it clicks into place.**



18 Set the ADF selector to the original position.



19 Clear the “Replace Roller Warning”. See page 26.

Shading Adjustment

● What is the purpose of the shading adjustment?

The process whereby the variations in the distribution of the lamp's light quantity are transformed into a fixed output within the scanning range is known as shading adjustment. It can be carried out by using the special shading paper which is provided with this scanner.

● When shading adjustment is required

Proceed with the compensation when the colors in some parts of the scanned images differ in the extreme, or when the image quality fails to be improved even after the inside the scanner is cleaned.

● Before proceeding with the shading adjustment

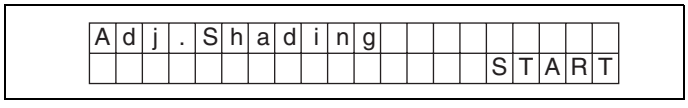
Before adjusting the shading clean the scanning section glasses and both sides of the reference plates of the upper and the lower. (See pages 34 through 35 and 37 through 42.)
If the shading adjustment is carried out while these parts are still dirty, it will not be possible to eliminate the lines that form on the scanned images.

● Shading adjustment procedure

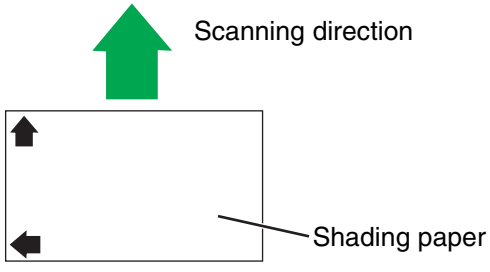
Do not turn off scanner while shading is being performed. This step will take approximately 5 minutes.

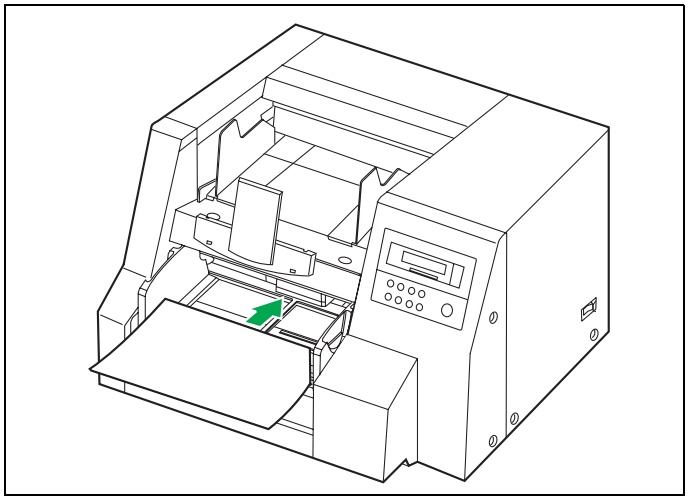
1 Set the reference plates to white side before adjusting the shading.

2 Switch on the power while pressing the ▲ key.
The LCD displays as shown on the right. When "High Speed Scanner" message appears on the LCD, release the ▲ key.

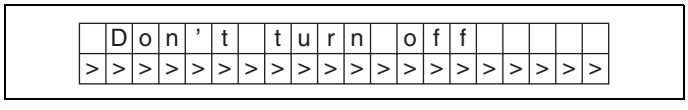


3 Place the shading paper side ways on the ADF hopper.

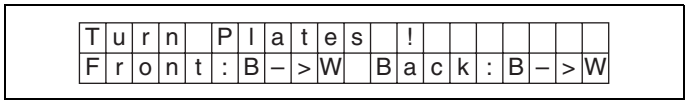




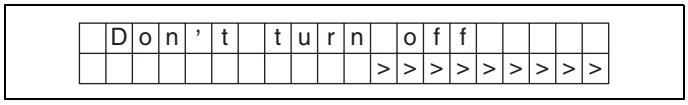
4 Press the STOP/START key.



- **If the reference plates are black, the "Turn Plates!" message will appear, open the front door and change the upper and the lower reference plates to the white side and close the front door.**

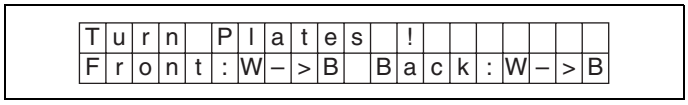


5 The shading paper will be fed into the scanner in a little while after the shading start. You will hear a clicking sound while shading is being performed. **Be sure not to open the front door or turn off the power.**



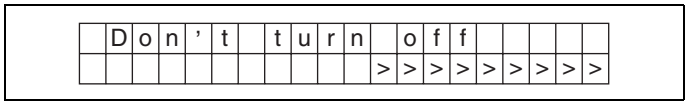
6 After the shading paper is ejected, the "Turn Plates!" message will appear, open the front door and change the upper and the lower reference plates to the black side. (See pages 34 through 35.)

Be sure not to turn off the power.

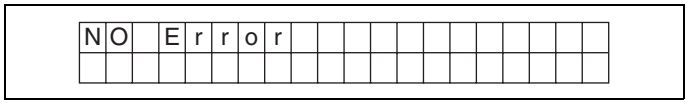


7 Close the front door.
The scanner will continue automatically.

- **The shading restarts and the LCD displays as shown on the right.**

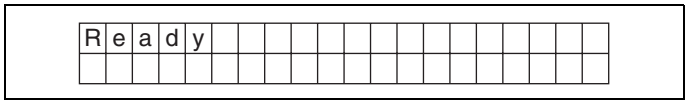


8 The shading is complete when the LCD displays as shown on the right.



9 Press the HOME key.

- **The LCD display returns to "Ready".**



Note: If you need to use white reference, please remember to rotate the reference plates back to white.

● Caution

If the scanned images are still lined after the shading adjustment has been performed and if these lines are not eliminated even after the scanning section glass areas have been cleaned, it means that the shading has not been compensated properly. Clean the parts again, and then proceed with the shading adjustment.

Repacking Instructions

It is highly recommended that you keep the original carton and ALL packing materials. If you need to transport or ship your scanner, please follow these instructions.

Please Note :

- Please use the original carton and all of the original packing materials.
- **Improper repacking of the scanner may result in a service charge to repair the unit.**
- The scanner should be handled in the correct (horizontal) position.

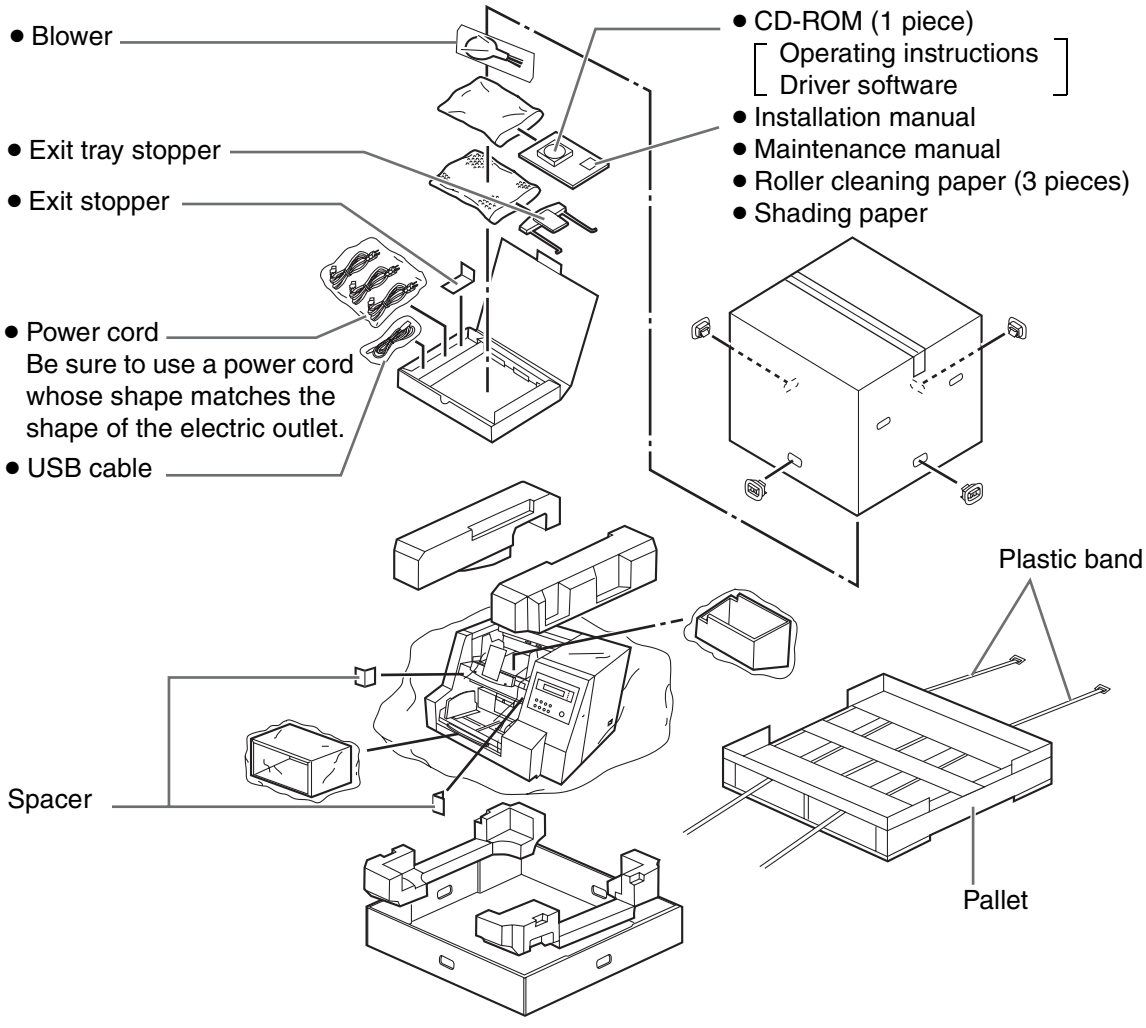
Materials Required :

- Original Scanner Carton & Packing Materials

1 Disconnect your scanner from the electrical outlet and the interface cable.

2 Remove the exit tray guides, exit tray stopper from the scanner.

3 Pack the scanner.



- **To avoid damage due to the weight of the unit, the unit should be shipped with the pallet tightened by the plastic bands.**

Specifications

Item \ Model No.			KV-S3105C	KV-S3085
Scanner	Scanning face		Duplex scanning	
	Scanning method		Front side : 3-line (RGB) color CCD Back side : 3-line (RGB) color CCD	
	Scanning width		302 mm (11.9 in.)	302 mm (11.9 in.)
	Scanning speed (portrait, 200 dpi)	Binary	Simplex scanning Letter 105 pages /min. A4 100 pages /min. Duplex scanning Letter 190 images /min. A4 180 images /min.	Simplex scanning Letter 88 pages /min. A4 85 pages /min. Duplex scanning Letter 166 images /min. A4 160 images /min.
		Color	Simplex scanning Letter 105 pages /min. A4 100 pages /min. Duplex scanning Letter 180 images /min. A4 174 images /min.	
	Resolution		Main scanning direction : 100~600 dpi (1 dpi step) Sub-scanning direction : 100~600 dpi (1 dpi step) (Same as main scanning direction) The optical resolution is 400 dpi.	
	Image Output		Binary Grayscale Color Multistream (Binary & Gray, Binary & Color)	Binary Grayscale Color (option) Multistream [Binary & Gray, Binary & Color (option)]
	Tonal gradation		Binary mode, Grayscale mode (8 bit), 64-step gradation (dither) mode, Error diffusion mode	
	Image control		Image emphasis, Dynamic threshold, Automatic separation, Invert, White level from paper	
	Compression		MH (G3), MR, MMR (G4), JPEG	
	Paper	Size*	48×70 mm (1.9×2.75 in.) to 297×432 mm (11.7×17 in.)	
		Thickness	Single paper feeding : 0.025 to 0.2 mm (1.0 to 7.9 mils) Continuous paper feeding : 0.04 to 0.2 mm (1.6 to 7.9 mils) Note: 1 mil = 1/1000 in.	
		Weight	Single paper feeding : 30 to 157 g/m^2 (8 to 42 lbs.) Continuous paper feeding : 50 to 157 g/m^2 (13 to 42 lbs.)** Smaller than A7 width : Thicker than 127 g/m^2 (34 lbs.)	
	Hopper capacity		1000 sheets (64 g/m^2) 17 lbs.	

"Weight in pounds" of paper represents the weight of 500 [17×22 inches (432×559 mm)] sheets.

* The scanning size depends on the memory installed in the scanner. Refer to PIE Reference Manual for details.

** For scanning thin paper (with paper weight 40 to 50 g/m^2), the optional roller exchange kit for thin paper (KV-SS027) is recommended.

Item \ Model No.			KV-S3105C	KV-S3085
Unit	External dimensions (Width×Depth×Height)		627×546×415 mm (24.7×21.5×16.3 in.)	
	Mass (Weight)		52 kg (114.4 lbs.)	
	Power requirement		AC100 – 120 V, 50/60 Hz AC220 – 240 V, 50/60 Hz	
	Power consumption	Maximum (Scanning)	3 A (AC100 – 120 V) 1.5 A (AC220 – 240 V)	
		Minimum (Standby)	0.7 A (AC100 – 120 V) 0.5 A (AC220 – 240 V)	
		Sleep mode	10 W (AC100 – 120 V) 11 W (AC220 – 240 V)	
Operating Environment	Operating temperature and humidity		15 °C to 30 °C (59 °F to 86 °F), 20% to 80% RH	
Storage Environment	Storage temperature and humidity		0 °C to 35 °C (32 °F to 95 °F), 10% to 80% RH	
Option/Consumables			Roller exchange kit (KV-SS026) Roller exchange kit for thin paper (KV-SS027) Imprinter option (KV-SS028) Roller cleaning paper (KV-SS03) Ink cartridge (KV-SS021)	
			—	Color upgrade kit (KV-SS029)

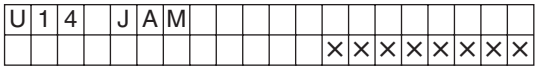
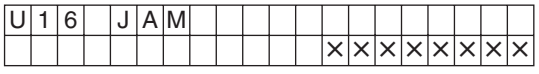
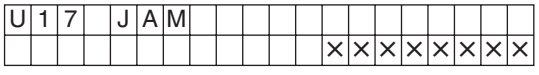
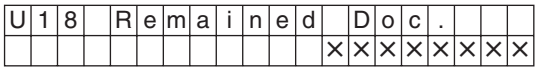
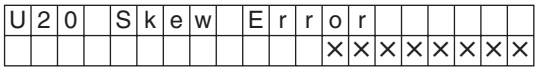
Troubleshooting

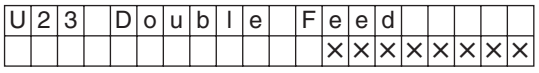
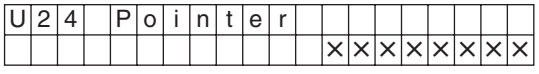
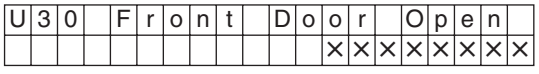
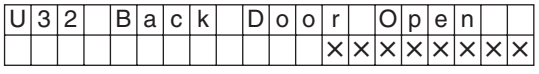
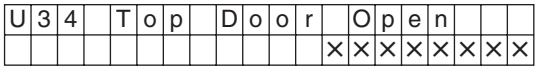
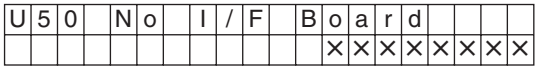
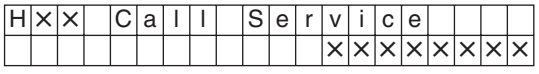
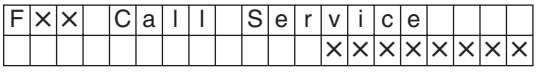
If a problem occurs while the unit is being used, check the following items. If the unit still malfunctions, turn it OFF, unplug the power cord and call for service.

Symptom	Possible Cause	Remedy
The LED does not light when the power switch is turned ON.	The power cord is not plugged in.	Insert the power plug firmly.
	Problem with power supply.	Disconnect the scanner from the electric outlet and call for service.
The computer does not recognize the scanner.	The scanner is not connected to the computer correctly.	Connect the cables correctly.
	The scanner is not registered correctly.	Uninstall the scanner from the computer. Register the scanner hardware again. (Refer to the Installation Manual on pages 25 and 26.)
SCSI connection	The computer cannot recognize the SCSI card.	Check your computer whether the SCSI card is installed correctly using the device manager's property. Refer to the Installation Manual on page 24.
	The same ID number is used for the scanner and the other device.	Use the different SCSI ID numbers for each devices. (See page 25.)
	The scanner was turned on after the computer was turned on.	Turn the computer OFF. Turn the scanner ON, and then turn the computer ON again.
USB connection	The USB interface of the computer is not installed correctly.	Check the computer whether the USB interface of your computer is installed correctly using the device manager's property.
	The scanner is connected via USB hub.	Do not connect via USB hub.
	The cable without High-Seed logo is used.	Use the cable with High-Speed logo.
Scan speed is slow at USB connection.	The scanner is connected with USB 1.1.	Connect with USB 2.0.
The document has been loaded on the hopper tray. But the scanner does not start scanning.	The document is not loaded properly.	Load the document correctly. (See pages 28–31.)
	The sensor cannot detect the document as the edge of the document is curled.	Flatten the document and load it again.

Symptom	Possible Cause	Remedy
Double feeding problems occurs frequently or the scanner stops loading while scanning.	The rollers are dirty.	Clean all of the rollers. (See page 38.)
	The rollers have reached their life expectancy.	Replace the paper feed roller module and the retard roller module and the retard pad module. (See page 43 to page 48.)
	The document is curled or folded.	Flatten the document and load it again after reducing the pages.
	The irregular type document is to be scanned.	Make a copy of the document on specified paper (see page 28) and scan the copy.
	The document has a length of less than 70 mm (2.75 in.).	Make a copy of the document on paper of the specified size and scan the copy. (See page 28.)
A paper jam occurs frequently.	The ADF selector is not set in the correct position.	Set the ADF selector correctly. (See page 32.)
Scanned image is aslant.	The document guides are not adjusted to the size of the document to be scanned. The document to be scanned is set aslant on the hopper tray.	Adjust the document guides properly to the size of the document to be scanned.
	Right and left sides of the document to be scanned are not the same in height, because of curl and fold.	Remove curl and fold then reduce the amount of the document.
The scanned document is blank.	The document to be scanned was loaded face down (upside down).	Load the document correctly. (See page 30.)
Vertical lines appear on the scanned document.	The scanning section glasses are dirty.	Clean the scanning section glasses. (See page 41.)
The scanning density is uneven.	The scanning section glasses are dirty.	Clean the scanning section glasses. (See page 41.)
The color of the scanned document is extremely different from the original document.	The settings of the computer monitor is wrong.	Adjust the computer monitor settings.
Dark spots or noise appear on the scanned documents.	The scanning section glasses are dirty.	Clean the scanning section glasses. (See page 41.)
Scanned image has moire fringes such as stripe or wavy pattern noise.	It is caused by printing pattern of the document and the congeniality of the scanning resolution.	Please use the moire reduction function or change the resolution and try to scan.

LCD	Possible Cause	Remedy
Warning Clean Roller	The rollers are dirty.	Clean the rollers. (See page 38.)
Warning Replace Roller	The rollers need to be replaced.	Replace the paper feed roller module and retard roller module. (See pages 43 and 45.)
Warning Replace Front Lamp	The front lamp needs to be replaced.	Replace the lamp module (Front). Call technical support service.
Warning Replace Back Lamp	The back lamp needs to be replaced.	Replace the lamp module (Back). Call technical support service.
Warning Replace Both Lamps	The both lamps need to be replaced.	Replace both lamp modules (Front/Back). Call technical support service.
Warning Double Feed Occurred	Double feed has occurred.	Open the front door and remove the jammed document. (See page 36.)
Warning Clean F. Sensor Plate	Dust or foreign matter adheres to the reference plate (F).	Clean the reference plate (F). (See page 41.)
Warning Clean B. Sensor Plate	Dust or foreign matter adheres to the reference plate (B).	Clean the reference plate (B). (See page 41.)
Warning Clean Sensor Plate	Dust or foreign matter adheres to the reference plates (F) and (B).	Clean the reference plates (F) and (B). (See page 41.)
U11 JAM XXXXXXXX	The document is jammed.	Open the front door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U11 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
U12 JAM XXXXXXXX	The document is jammed.	Open the front door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U12 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)

LCD	Possible Cause	Remedy
	The document is jammed.	Open the back door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U13 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
	The document is jammed.	Open the front door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U14 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
	The document is jammed.	Open the back door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U15 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
	The document is jammed.	Open the front door and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U16 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
	The document is jammed.	Open the front and back doors and remove the jammed paper. Then clean all of the rollers. (See page 38.)
	When U17 JAM occurs frequently, the document sensor is dirty.	Clean the document sensors and reflectors. (See page 42.)
	A document remains in the scanner.	Open the front and/or back doors, and remove all of the remaining documents.
	Dust adheres to the document sensor and reflectors.	Clean the document sensors and reflectors. (See page 42.)
	Foreign matter is lodged around the paper sensor.	Remove the foreign matter.
	The document is skewed.	Open the front door and remove the document.

LCD	Possible Cause	Remedy
	Multiple sheets were fed into the unit.	Open the front door and remove the jammed paper.
	When U23 Double Feed occurs frequently, the rollers are dirty.	Clean all of the rollers. (See page 38.)
	When U23 Double Feed occurs frequently, the rollers need to be replaced.	Replace the paper feed roller module or the retard roller module. (See pages 43 and 45.)
	The paper path selector is set to the lower side when a post-imprinter is selected.	Set the paper path selector to the upper side to select a U-turn path pass. (See page 32.)
	The front door is open.	Close the front door.
	The back door is open.	Close the back door.
	The post-imprinter door is open.	Close the post-imprinter door.
	The interface is not installed properly.	Install the interface board again.
	A user non-serviceable error has occurred.	Consult with a service representative. Call technical support service.
	A user non-serviceable error has occurred.	Consult with a service representative. Call technical support service.
“F60 Call Service” and/or “F62 Call Service” appear on the LCD frequently.	The lamp module reaches its useful life.	Replace the lamp module. Call technical support service.

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